Access DB# 89983

SEARCH REQUEST FORM

Please perform the search ASAP. Thank you!
Jan Jiang SPE of AU2645

Scientific and Technical Information Center

Requester's Full Name: GERALD GAUTHIER Examiner #: 78866 Date: 3/25/03
Art Unit: 2645 Phone Number 305-0981 Serial Number: 09/190129
Mail Box and Bldg/Room Location: 8602 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Voice Messaging System Caller Ring Bypass Control

Inventors (please provide full names): Joseph Cannon, James Johanson, Doreen Michaletti

Earliest Priority Filing Date: 11/12/1998

**For Sequence Searches Only* Please include all pertinent information (parent, child/divisional, or issued patent numbers) along with the appropriate serial number.*

Non traditional ring signal (such as Line Reversal, FSK) prior to the ringing signal is sent to the called party

see attached claim 4 & the abstract of the invention

03-26-03 P12:24

****

STAFF USE ONLY	Type of Search		Vendors and cost where applicable	
Searcher: Terri Beale	NA Sequence (#)		STN	
Searcher Phone #: 306-0254	AA Sequence (#)		Dialog	
Searcher Location: PK7-3105	Structure (#)		Questel/Orbit	
Date Searcher Picked Up: 3/26/03	Bibliographic	✓	Dr.Link	
Date Completed: 3/27/03	Litigation		Lexis/Nexis	
Searcher Prep & Review Time: 113	Fulltext	✓	Sequence Systems	
Clerical Prep Time:	Patent Family		WWW/Internet	
Online Time: 173	Other		Other (specify)	

PTO-1590 (8-01)

Memorandum

To: Examiner Gerald Gauther

From: Terri Beale

Date: 3/27/03

Re: Search request 09/190,129

Attached please find the results of your search request 09/190,129. Please feel free to contact me if you have questions or concerns. Thank you and have a great day.

Please take a moment and fill out the attached feedback form. Thank you.

Terri Beale
EIC 2600
306-0254

L Number	Hits	Search Text	DB	Time stamp
1	13771	line near3 revers$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/03/27 11:58
2	430	(line near3 revers$3) same ring$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/03/27 11:58
3	222	(line near3 revers$3) with ring$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/03/27 11:59

March 26, 2003

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File 344:Chinese Patents Abs Aug 1985-2003/Jan
         (c) 2003 European Patent Office
File 347:JAPIO Oct 1976-2002/Nov(Updated 030306)
         (c) 2003 JPO & JAPIO
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200319
         (c) 2003  THOMSON DERWENT

Set     Items   Description
S1         58   AU='CANNON J M'
S2         46   AU='JOHANSON J':AU='JOHANSON J A'
S3          1   AU='MICHELETTI D M'
S4          0   S1 AND S2 AND S3
S5         38   S1 AND S2
S6          0   S1 AND S3
S7          0   S2 AND S3
S8         31   S5 AND TELEPHON?
S9          5   S8 AND VOICE()MESSAG?
```

9/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

014767885 **Image available**
WPI Acc No: 2002-588589/200263
XRPX Acc No: N02-466925
Telephone **answering device for use in office, includes voice recorder and playback module which records** voice message **from caller without interrupting existing call**
Patent Assignee: AGERE SYSTEMS GUARDIAN CORP (AGER-N)
Inventor: **CANNON J M ; JOHANSON J A**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 6393106	B1	20020521	US 9856621	A	19980408	200263	B

Priority Applications (No Type Date): US 9856621 A 19980408
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6393106	B1		11	H04M-001/64	

Abstract (Basic): US 6393106 B1
NOVELTY - A voice recorder/playback module (201) records a **voice message** from a caller without interrupting an existing **telephone** call.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:
(1) Automatic calling method;
(2) Call answering method;
(3) Stand-alone **telephone** answering device; and
(4) Caller directing method to **voice messaging** system.
USE - **Telephone** answering device for use in residence, office.
ADVANTAGE - If a called party is already busy on a **telephone** line, when the caller party calls, the caller is effectively directed to a **voice messaging** system or to another **telephone** line.
DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the **telephone** answering device.
Voice recorderplayback module (201)
pp; 11 DwgNo 1/5
Title Terms: **TELEPHONE** ; ANSWER; DEVICE; OFFICE; VOICE; RECORD; PLAYBACK; MODULE; RECORD; VOICE; MESSAGE; CALL; INTERRUPT; EXIST; CALL
Derwent Class: W01
International Patent Class (Main): H04M-001/64
International Patent Class (Additional): H04M-001/56; H04M-003/42; H04M-011/00
File Segment: EPI

9/5/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

014188687 **Image available**
WPI Acc No: 2002-009384/200201
XRPX Acc No: N02-007791
Variable voice compression ratio device for telephone **answering device, compares incoming call related information with preset call related information to determine voice compression ratios for storing** voice message
Patent Assignee: LUCENT TECHNOLOGIES INC (LUCE)
Inventor: **CANNON J M ;** IYENGAR V; **JOHANSON J A**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week

US 6295340 B1 20010925 US 9878036 A 19980513 200201 B

Priority Applications (No Type Date): US 9878036 A 19980513
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
US 6295340 B1 14 H04M-001/64

Abstract (Basic): US 6295340 B1
NOVELTY - A call related information/coding database associates call related information pre-set by a user with respective voice compression ratios. A processor compares incoming call related information provided by a central office of a **telephone** company with the pre-set call related information, to determine voice compression ratios for storing **voice message** .
DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for effective data rate setting method.
USE - For **voice messaging** system such as **telephone** answering device (TAD).
ADVANTAGE - Improves the traditional **voice messaging** system by enabling the call itself to automatically select and invoke the coding technique and/or effective data rate corresponding to data compression for recording of the **voice message** . Prevents wastage of voice memory on undesirable memory and also stores **voice messages** from important calls at higher voice quality.
DESCRIPTION OF DRAWING(S) - The figure shows the front view of **telephone** answering device.
pp; 14 DwgNo 4/6
Title Terms: VARIABLE; VOICE; COMPRESS; RATIO; DEVICE; **TELEPHONE** ; ANSWER; DEVICE; COMPARE; INCOMING; CALL; RELATED; INFORMATION; PRESET; CALL; RELATED; INFORMATION; DETERMINE; VOICE; COMPRESS; RATIO; STORAGE; VOICE; MESSAGE
Derwent Class: W01
International Patent Class (Main): H04M-001/64
File Segment: EPI

9/5/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013525479 **Image available**
WPI Acc No: 2001-009685/200102
XRPX Acc No: N01-007315
A telephone **answering machine for retrieving and storing a** voice message **from a** telephone **company voice mailbox includes a voice mail retrieval module operating in response to a request or a message waiting indicator**
Patent Assignee: LUCENT TECHNOLOGIES INC (LUCE)
Inventor: **CANNON J M** ; **JOHANSON J A** ; MOONEY P D
Number of Countries: 027 Number of Patents: 003
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
EP 1051018 A2 20001108 EP 2000303460 A 20000425 200102 B
CA 2306600 A1 20001105 CA 2306600 A 20000426 200104
JP 2001007928 A 20010112 JP 2000133055 A 20000502 200107

Priority Applications (No Type Date): US 99305208 A 19990505
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
EP 1051018 A2 E 13 H04M-003/533
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI
CA 2306600 A1 E H04M-003/533
JP 2001007928 A 10 H04M-003/533

Abstract (Basic): EP 1051018 A2

NOVELTY - A controller (24) controls a keypad (32), a display (36), a voice recorder/playback module (18) with microphone (26), speaker (35) and **voice message** memory (28). A voice mail retrieval module (34) downloads **voice messages** from the central office (14) voice mailbox memory (30) via a **telephone** line (16) and interface (12) in response to a **voice message** waiting indicator (VMWI) signal or a request from the keypad, storing the messages in the **voice message** memory.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of retrieving a **voice message** from a voice mailbox for playback at a **telephone** answering machine.

USE - The **telephone** answering machine is used for retrieving and storing a **voice message** from a **telephone** company voice mailbox.

ADVANTAGE - **Voice messages** can be recorded at the voice mail site if the **voice message** memory is full or otherwise disabled. The messages can be subsequently automatically, or on request by the user, retrieved and stored and played back as required. The advantages of both a **telephone** answering machine (such as call screening, single button operation, ease of updating outgoing **voice message**) and a voice mailbox (such as voice mail recording when the line is busy or the message memory is full or during power failure) are combined.

DESCRIPTION OF DRAWING(S) - The figure shows a **telephone** answering machine including a voice mail retrieval module.

Telephone line interface (12)
Central office (14)
Telephone line (16)
Voice recorder/playback module (18)
Controller (24)
Microphone (26)
Voice message memory (28)
Voice mailbox memory (30)
Keypad (32)
Voice mail retrieval module (34)
Speaker (35)
Display (36)
pp; 13 DwgNo 1/5

Title Terms: **TELEPHONE** ; ANSWER; MACHINE; RETRIEVAL; STORAGE; VOICE; MESSAGE; **TELEPHONE** ; COMPANY; VOICE; MAILBOX; VOICE; MAIL; RETRIEVAL; MODULE; OPERATE; RESPOND; REQUEST; MESSAGE; WAIT; INDICATE

Derwent Class: W01

International Patent Class (Main): H04M-003/533

International Patent Class (Additional): H04L-012/54; H04L-012/58; H04M-003/42; H04M-003/50; H04M-007/00

File Segment: EPI

9/5/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

012853518. **Image available**

WPI Acc No: 2000-025350/200003

Related WPI Acc No: 2000-055324; 2000-074694; 2000-089374; 2000-191141

XRPX Acc No: N00-019010

Voice messaging **service module with outgoing greeting messages**

Patent Assignee: LUCENT TECHNOLOGIES INC (LUCE)

Inventor: **CANNON J M** ; **JOHANSON J A** ; UBOWSKI R M

Number of Countries: 026 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 957622	A2	19991117	EP 99303452	A	19990504	200003	B
TW 404108	A	20000901	TW 99105034	A	19990330	200112	

Priority Applications (No Type Date): US 9875945 A 19980512

Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
EP 957622 A2 E 10 H04M-003/50
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI
TW 404108 A H04M-003/50
Abstract (Basic): EP 957622 A2
NOVELTY - The module includes several pre-stored messages related to respective pre-stored call information. A processor compares received call related information to the pre-stored call related information to select one of the messages.
DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also given for a method of selecting a message.
USE - For selecting particular outgoing greeting message (OGM) or announcement based on incoming call information.
ADVANTAGE - Allows user to give different messages to different callers.
DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of a **telephone** answering device (TAD).
pp; 10 DwgNo 1/4
Title Terms: VOICE; MESSAGING; SERVICE; MODULE; OUTGOING; GREETING; MESSAGE
Derwent Class: W01
International Patent Class (Main): H04M-003/50
File Segment: EPI

9/5/5 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX

012567267 **Image available**
WPI Acc No: 1999-373374/199932
XRPX Acc No: N99-278743
Digital voice messaging **system**
Patent Assignee: LUCENT TECHNOLOGIES INC (LUCE)
Inventor: **CANNON J M** ; **JOHANSON J A**
Number of Countries: 026 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 926871	A2	19990630	EP 98310051	A	19981208	199932	B
KR 99063167	A	19990726	KR 9855807	A	19981217	200043	
KR 329327	B	20020509	KR 9855807	A	19981217	200272	

Priority Applications (No Type Date): US 97992115 A 19971217
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
EP 926871 A2 E 13 H04M-003/50
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI
KR 99063167 A H04L-012/28
KR 329327 B H04L-012/28 Previous Publ. patent KR 99063167

Abstract (Basic): EP 926871 A2
NOVELTY - System comprises a received **voice message** memory, a processor (200) operating an electronic messaging program preparing the **voice message** for electronic transmission (e-mail), and a transmitter. The input device accepts a schedule and a memory (202,204) stores **voice messages** . An audio format program converts the **voice message** to audio file format (WAV file) for attachment to the e-mail and the messages are counted with linking via a clock device. An input memory (224) stores a caller ID information database and the corresponding destination addresses.
USE - System is a digital **voice messaging** system which forwards a received **voice message** to an electronic mail address in e.g. a PBX system.

ADVANTAGE - System automatically informs the user of an incoming **voice message** , automatically sends it to a destination e-mail address, stores it and plays it in the e-mail message.

DESCRIPTION OF DRAWING(S) - The figure shows a **telephone** answering device according to the first embodiment of the invention.

pp; 13 DwgNo 2/6

Title Terms: DIGITAL; VOICE; MESSAGING; SYSTEM

Derwent Class: T01; W01; W04

International Patent Class (Main): H04L-012/28; H04M-003/50

File Segment: EPI

March 26, 2003

File 348:EUROPEAN PATENTS 1978-2003/Mar W03
(c) 2003 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20030320,UT=20030313
(c) 2003 WIPO/Univentio

Set	Items	Description
S1	25	AU='CANNON JOSEPH M'
S2	25	AU='JOHANSON JAMES':AU='JOHANSON JAMES A'
S3	0	AU='MICHELETTI DO?'
S4	21	S1 AND S2
S5	20	S4 AND TELEPHON?

5/5,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01322088
Intelligent incoming call management during cordless intercom mode
Intelligente Verarbeitung eines eingehendes Anrufs in einem schnurlosen Gegensprechsystem
Traitement intelligent d'appel entrant dans un mode d'interphonie sans fil
PATENT ASSIGNEE:
Agere Systems Guardian Corporation, (3263830), Suite 105, 14645 N W 77 Avenue, Miami Lakes, Florida 33014, (US), (Appliçant designated States: all)
INVENTOR:
Cannon, Joseph M. , 913 Harcourt Lane, Harleysville, Pennsylvania 19438, (US)
Johanson, James A. , 6336 Larch Circle, Macungie, Pennsylvania 18062, (US
LEGAL REPRESENTATIVE:
Williams, David John et al (86433), Page White & Farrer, 54 Doughty Street, London WC1N 2LS, (GB)
PATENT (CC, No, Kind, Date): EP 1128645 A2 010829 (Basic)
APPLICATION (CC, No, Date): EP 2001301604 010222;
PRIORITY (CC, No, Date): US 511701 000223
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04M-001/725

ABSTRACT EP 1128645 A2
In one embodiment according to the invention, a cordless **telephone** comprises a base unit and a handset. An RF link between the base unit and the handset is adapted for use during a **telephone** conversation and for use as an intercom. When in an intercom mode, an incoming call is handled in a manner that does not automatically terminate the intercom mode in response to the incoming call. For example, call related information associated with the incoming call may be analyzed, and a decision to terminate the intercom mode may be based on the call related information. In an alternative example, call related information may be transmitted by the base unit to the handset, and the handset may be adapted to display at least a portion of the call related information, so that a user may elect whether to respond to the incoming call or to maintain the intercom. In another alternative embodiment according to the invention, a method of handling an incoming call in a cordless **telephone** that is in an intercom mode, includes the steps of analyzing call related information associated with the incoming call, and deciding whether to terminate the intercom mode based on the call related information.
ABSTRACT WORD COUNT: 203
NOTE:
Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 010829 A2 Published application without search report
Assignee: 010912 A2 Transfer of rights to new applicant: Agere Systems Guardian Corporation (3263831) 9333 S John Young Parkway, Room 301E1211 Orlando, Florida 32819 US
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200135	833
SPEC A	(English)	200135	2508
Total word count - document A			3341
Total word count - document B			0

March 26, 2003

Total word count - documents A + B 3341

INVENTOR:
Cannon, Joseph M ...
...US)
Johanson, James A ...

...ABSTRACT A2
In one embodiment according to the invention, a cordless **telephone** comprises a base unit and a handset. An RF link between the base unit and the handset is adapted for use during a **telephone** conversation and for use as an intercom. When in an intercom mode, an incoming call...

...embodiment according to the invention, a method of handling an incoming call in a cordless **telephone** that is in an intercom mode, includes the steps of analyzing call related information associated...

...SPECIFICATION A2

Field of the Invention:
The invention is directed to the field of **telephony** , and in particular to cordless **telephones** that include an intercom between the base unit and the handset.

Background of the Invention:
Cordless **telephones** include a base unit, which is typically in a relatively "fixed" location, and a handset...

...or which may roam relative to the base unit, such as when engaged in a **telephone** call. The base unit is typically coupled to a network, such as the Public Switched **Telephone** Network (PSTN), via a physical connection. The base unit is also coupled, via an RF connection, to the handset. Thus, when a user is engaged in a **telephone** call, the user interacts with a microphone and a speaker in the handset, associated RF ...

...and the base unit, and the base unit interfaces with the network.
Some conventional cordless **telephones** take advantage of the RF link between the base unit and the handset by enabling...

...the base unit. The particular methods of establishing the intercom vary amongst the conventional cordless **telephones** .
For example, some conventional **telephones** allow the user with the handset to initiate an intercom mode connection by activating a...

...such as an audible signal, by activating a key on the base unit. Alternative cordless **telephone** configurations enable a user to initiate an intercom mode from the base unit, such as during a paging operation. Of course, some cordless **telephones** enable the intercom mode to be initiated from either the base unit or the handset...

...of the initiation method, one consistent prerequisite to the intercom mode is that the cordless **telephone** must be in an on-hook condition (i.e., there is not an on-going **telephone** call) prior to the initiation of the intercom mode. This requirement is mandated by the...

...unit and the handset, and that if the link is employed in an on-going **telephone** conversation, then it cannot be employed for intercom purposes.
Another conventional feature mandated by the...
...of a new incoming call. Conventionally, therefore, when a new call is incoming, the cordless **telephone** terminates the intercom mode prior to causing a ringing signal to be produced by the...

...a need for a more intelligent way of handling an incoming call in a

cordless **telephone** engaged in an intercom mode.

Summary of the Invention:

This need is met, in one embodiment according to the invention, by a cordless **telephone** comprising a base unit and a handset, wherein an RF link between the base unit and the handset is adapted for use during a **telephone** conversation and for use as an intercom, and wherein, when in an intercom mode, an...

...embodiment according to the invention, a method of handling an incoming call in a cordless **telephone** that is in an intercom mode includes the steps of analyzing call related information associated...

...drawing, wherein:

Figure 1 is a simplified block diagram of one embodiment of a cordless **telephone** according to the invention;

Figure 2 is a simplified operational flowchart of one embodiment according...

...to the invention

Detailed Description:

Figure 1 is a simplified block diagram of a cordless **telephone** adapted to operate according to the invention. **Telephone** 105 comprises two primary components: a base unit 107 and a handset 109. A link...upon the receipt of an incoming call. For example, base unit 107 may include a **telephone** line interface (TLI) 123 that links the base unit 107 to a network 125, such as a public switched **telephone** network (PSTN) and in a conventional cordless **telephone** , an incoming call from the PSTN will terminate the intercom conversation. However, according to the...

...Call Waiting (CID/CW). In CID/CW, while a first party is engaged in a **telephone** conversation with a second party, and a third party incoming caller is attempting to reach...

...to emulate a CID/CW situation when the baseline situation is that there is no **telephone** call between a first party's **telephone** and a second party's **telephone** , but where instead there is an intercom conversation between the base unit 107 and the...

...CLAIMS A2

1. A cordless **telephone** , comprising:
a base unit; and
a handset,
wherein an RF link between the base unit and the handset is adapted for use during a **telephone** conversation and for use as an intercom, and

wherein, when in an intercom mode, an...

...not automatically terminate the intercom mode in response to the incoming call

2. A cordless **telephone** as recited in claim 1, wherein call related information associated with the incoming call is...

...to terminate the intercom mode is based on the call related information.

3. A cordless **telephone** as recited in claim 2, wherein the call related information comprises Caller ID data.
4. A cordless **telephone** as recited in claim 2, wherein the analysis is performed by a processor in the base unit.
5. A cordless **telephone** as recited in claim 1, wherein the call related information is transmitted by the base unit to the handset.
6. A cordless **telephone** as recited in claim 5, wherein audio is attenuated prior to the transmission of the call related information.

7. A cordless **telephone** as recited in claim 5, wherein a signal is transmitted from the base unit to the handset prior to the transmission of the call related information.
8. A cordless **telephone** as recited in claim 7, wherein an acknowledge signal is transmitted from the handset to the base unit prior to the transmission of the call related information.
9. A cordless **telephone** as recited in claim 5, wherein the handset is adapted to display at least a portion of the call related information.
10. A cordless **telephone** as recited in claim 9, wherein the handset is adapted to receive user input and...

...provide a signal related to the user input to the base unit.
11. A cordless **telephone** as recited in claim 10, wherein the base unit is adapted to affect the intercom...

...to the user input.
12. A method of handling an incoming call in a cordless **telephone** , comprising:

not automatically terminating an existing intercom mode.
13. A method of handling an incoming call in a cordless **telephone** that is in an intercom mode, comprising the steps of:
analyzing call related information associated...

...the intercom mode based on the signal related to the user input.
23. A cordless **telephone** , comprising:
means for analyzing call related information associated with an incoming call; and
means for...

...whether to terminate an intercom mode based on the call related information.
24. A cordless **telephone** as recited in claim 23, wherein the call related information comprises Caller ID data.
25. A cordless **telephone** as recited in claim 23, further comprising means for transmitting the call related information from the base unit to the handset.
26. A cordless **telephone** as recited in claim 23, further comprising means for attenuating audio associated with the intercom...
...the call related information.
27. A method of handling an incoming call in a cordless **telephone** that is in an intercom mode, comprising the steps of:
providing a signal to at...

5/5,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01292212
Alert signal during telephone **conversation**
WARNUNGSIGNAL wahrend einer GESPRACHSVERBINDUNG
Signal d'alerte pendant une conversation telelphonique
PATENT ASSIGNEE:
LUCENT TECHNOLOGIES INC., (2143720), 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, (US), (Applicant designated States: all)
INVENTOR:
Cannon, Joseph M. , 913 Harcourt Lane, Harleysville, Pennsylvania, 19438 , (US)
Johanson, James A. , 6336 Larch Circle, Macungie, Pennsylvania, 18062, (US)
Mooney, Philip D., 508 De Kalb Pike, North Wales,Pennsylvania, 19454, (US)
Ubowski, Richard M., 537 Paterno Drive, Harleysville, Pennsylvania, 19438

, (US
LEGAL REPRESENTATIVE:
Williams, David John et al (86433), Page White & Farrer, 54 Doughty Street, London WC1N 2LS, (GB)
PATENT (CC, No, Kind, Date): EP 1109377 A1 010620 (Basic)
APPLICATION (CC, No, Date): EP 2000310754 001204;
PRIORITY (CC, No, Date): US 458651 991210
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04M-001/04; H04M-019/04; H04M-001/60

ABSTRACT EP 1109377 A1
An audible signal associated with an event is provided as part of the audio path of a **telephone** . In particular, a **telephone** according to one embodiment of the invention includes a microphone adapted to receive audible signals from a user and to convert the audible signals to electrical signals for transmission to a distant party, and a speaker adapted to receive electrical signals associated with input from the distant party and to convert the electrical signals to audible signals. According to the invention, the **telephone** also includes a processor adapted to produce electrical signals associated with an external event, and to integrate these electrical signals with the received electrical signals. In an alternative embodiment according to the invention, a method of alerting a party to a **telephone** conversation of an external event includes the step of providing an indication of the external event to the party from a speaker of the **telephone** during the **telephone** conversation. The external event can be a time of day, for example, and the indication can be a distinctive chime or an announcement of the time.
ABSTRACT WORD COUNT: 182
NOTE:
Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 010620 A1 Published application with search report
Examination: 020213 A1 Date of request for examination: 20011214
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200125	467
SPEC A	(English)	200125	2032
Total word count - document A			2499
Total word count - document B			0
Total word count - documents A + B			2499

Alert signal during telephone **conversation**
INVENTOR:
Cannon, Joseph M ...

...US)
Johanson, James A ...

...ABSTRACT signal associated with an event is provided as part of the audio path of a **telephone** . In particular, a **telephone** according to one embodiment of the invention includes a microphone adapted to receive audible signals...

...party and to convert the electrical signals to audible signals. According to the invention, the **telephone** also includes a processor adapted to produce electrical signals associated with an external event, and...

...an alternative embodiment according to the invention, a method of alerting a party to a **telephone** conversation of an external event includes the step of providing an indication of the external event to the party from a speaker of the **telephone** during the **telephone**

conversation. The external event can be a time of day, for example, and the indication...

...SPECIFICATION A1

Field of the Invention:
The invention is directed to the field of **telephony** , and more particularly to the advantageous use of the sounds provided to a **telephone** speaker.

Background of the Invention:
When people talk on the **telephone** , they sometimes become so involved in a **telephone** conversation that they lose track of time. It is not uncommon for a party on a **telephone** conversation to suddenly remember an important event and abruptly declare to the other party something...

...At which point the conversation will terminate by the party hanging up the party's **telephone** . "X" can be anything from picking up one's child at the bus stop, to...

...a need, therefore, for a method and apparatus to alert a party involved in a **telephone** conversation to the time of day, the occurrence of an important event, or the upcoming...
...an audible signal associated with an event as part of the audio path of the **telephone** . In particular, a **telephone** according to one embodiment of the invention includes a microphone adapted to receive audible signals ...

...party and to convert the electrical signals to audible signals. According to the invention, the **telephone** also includes a processor adapted to produce electrical signals associated with an external event, and...

...an alternative embodiment according to the invention, a method of alerting a party to a **telephone** conversation of an external event includes the step of providing an indication of the external event to the party from a speaker of the **telephone** during the **telephone** conversation. The external event can be a time of day, for example, and the indication...

...light of the drawing, wherein:
Figure 1 is a simplified block diagram of an exemplary **telephone** configured according to the invention; and
Figure 2 is a simplified operational flowchart describing an exemplary operational configuration of a **telephone** according to the invention.

Detailed Description:
Figure 1 shows an exemplary **telephone** 105 configured to operate according to the invention. In this embodiment, **telephone** 105 is a wired **telephone** coupled to a network 107, such as the public switched **telephone** network (PSTN), via a **telephone** line interface 109, although aspects of the invention may be advantageously employed in any kind of **telephone** coupled to any kind of network.
Telephone 105 includes a processor 111, such as an integrated circuit microcontroller or digital signal processor. The processor 111 is adapted to control the operations of **telephone** 105, and in addition to controlling conventional **telephone** operations, processor 111 is adapted to control operations according to the invention. It is, of...

...the functionality into a processor that is already required as part of the design of **telephone** 105.
Processor 111 is linked to a microphone 113 and a speaker 115, such as are conventionally configured within a **telephone** handset or as part of a base unit speaker phone application. Additional elements, such as a codec, which are conventional in a **telephone** , are not described herein,

although one of skill in the art is clearly aware of...
...periodic basis, such as once every ten minutes, to provide a party engaged in a **telephone** call a sense of the passage of time. Alternatively, the processor 111 may be adapted...response to input from the user.

Alternatively, the announcement may be base on a particular **telephone** condition, such as a low battery. Also, the announcement and/or the frequency of the...

...example, a keypad, and which may also be used for keypad input to control conventional **telephone** functions. Input unit 117 may also or alternatively be configured as a wireless transceiver to...

...of the signals being issued thereby. For example, if the user is engaged in a **telephone** call and is somewhat oblivious to the events going on around the user, or if the **telephone** call causes the user to be at a location that is not proximate to the...

...unaware of the warning and may thus miss the appointment. According to the invention, however, **telephone** 105 is made aware of the appointment by, for example, sensing a signal in input...

...may instruct the PDA 130 to upload the PDA's calendar of events to the **telephone** 105. As a result, data relating to a plurality of events are transferred via the...

...and memory 119 thus coordinate to locally generate appropriate alert or warning signals, particularly when **telephone** 105 is in an off-hook condition.

Device 150, which is an alternative source for...

...description details a wireless link between the PDA 130, computer 140, appliance 150 and the **telephone** 105. Alternatively, as also depicted in Figure 1, the connection may be a wired connection, such as via **telephone** lines within a home, such that the communication is according to, for example, a home **telephone** line communication standard, such as the Home Phone Line Network Alliance (HomePNA) standard, incorporated herein by reference.

The devices 130, 140 and 150 may automatically output signals over the home **telephone** line, regardless of whether **telephone** 105 is in an off-hook or onhook condition. Alternatively, one or more of the devices may include a parallel set detect module coupled to an internal **telephone** line interface, whereby a processor within the device checks to see if a parallel set (e.g., **telephone** 105) is off-hook, and if so, then the signals are sent.

Figure 2 provides...

...an embodiment according to the invention. At step 202 an alert signal is received by **telephone** 105. At step 204 a determination is made as to whether **telephone** 105 is in an off-hook condition. If the answer ... aforementioned embodiments describe the provision of a signal integrated into an audio path of a **telephone** . It is, of course, possible to couple such an audio signal with an audible signal...

...CLAIMS A1

1. A **telephone** , comprising:
a microphone adapted to receive audible signals from a user and to convert the...

...external event, and to integrate these electrical signals with the received electrical signals.

2. A **telephone** as recited in claim 1, wherein the external event is a time of day and...

...the speaker and the time of day to be heard from the speaker.

3. A **telephone** as recited in claim 1, further comprising a receiver adapted to receive a signal associated...

...a personal digital assistant (PDA) and a device associated with the external event.

4. A **telephone** as recited in claim 1, further comprising a memory, wherein the memory is adapted to...

...signal associated with the external events.

5. A method of alerting a party to a **telephone** conversation of an external event, comprising the step of:

providing an indication of the external event to the party from a speaker of the **telephone** during the **telephone** conversation.

6. A method as recited in claim 5, wherein the external event is a...

...digital assistant (PDA), a device associated with the external event, a home appliance, a home **telephone** network, and a computer.

8. A method as recited in claim 7, wherein the alert...

...method as recited in claim 7, wherein the alert signal is received from a home **telephone** network, further comprising the steps of:
the device determining if the **telephone** is in an off-hook condition; and
the device selectively transmitting the alert signal based...

5/5,K/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01225696
Accelerometer influenced communication device.
Kommunikationsgerat unter dem Einfluss eines Beschleunigungssensor
Appareil de communication sous l'influence d'un accelerometre
PATENT ASSIGNEE:
LUCENT TECHNOLOGIES INC., (2143720), 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, (US), (Applicant designated States: all)
INVENTOR:
Cannon, Joseph M. , 913 Harcourt Lane, Harleysville, Pennsylvania 19438, (US)
Johanson, James A. , 6336 Larch Circle, Macungie, Pennsylvania 18062, (US
LEGAL REPRESENTATIVE:
Williams, David John et al (86433), Page White & Farrer, 54 Doughty Street, London WC1N 2LS, (GB)
PATENT (CC, No, Kind, Date): EP 1063837 A2 001227 (Basic)
APPLICATION (CC, No, Date): EP 304982 000613;
PRIORITY (CC, No, Date): US 339893 990625
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04M-001/725

ABSTRACT EP 1063837 A2
In one embodiment, a communication device according to the invention includes an accelerometer, and an operational aspect of the communication device is adapted to be influenced by an output of the accelerometer. The communication device may be a **telephone** , such as a wireless **telephone** , and the accelerometer may influence the operational aspect of the wireless **telephone** to advantageously make the wireless **telephone** operate more like a wired **telephone** . An exemplary wireless handset according to the invention may include a wireless transceiver, a controller, and an accelerometer, wherein the controller is adapted to receive an output from the accelerometer and affect a state of the

wireless transceiver based thereon. In another embodiment according to the invention, a method of operating a communication device includes the steps of determining a motion characteristic of the communication device, and affecting an operational aspect of the communication device based on the motion characteristic. An exemplary method of operating a wireless **telephone** handset according to the invention includes the steps of receiving a ring signal, sensing a movement of the handset, and transitioning to an off-hook state from an on-hook state based on the sensed movement. An alternative method of operating a wireless **telephone** handset includes the steps of determining an absence of voice activity, determining an absence of motion, and transitioning to an on-hook state based on the absence of voice activity and absence of motion.

ABSTRACT WORD COUNT: 232

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 001227 A2 Published application without search report

Change: 010516 A2 Legal representative(s) changed 20010329

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200052	991
SPEC A	(English)	200052	3113
Total word count - document A			4104
Total word count - document B			0
Total word count - documents A + B			4104

INVENTOR:

Cannon, Joseph M ...

...US)

Johanson, James A ...

...ABSTRACT to be influenced by an output of the accelerometer. The communication device may be a **telephone** , such as a wireless **telephone** , and the accelerometer may influence the operational aspect of the wireless **telephone** to advantageously make the wireless **telephone** operate more like a wired **telephone** . An exemplary wireless handset according to the invention may include a wireless transceiver, a controller...

...the communication device based on the motion characteristic. An exemplary method of operating a wireless **telephone** handset according to the invention includes the steps of receiving a ring signal, sensing a...

...on-hook state based on the sensed movement. An alternative method of operating a wireless **telephone** handset includes the steps of determining an absence of voice activity, determining an absence of...

5/5,K/4 (Item 4 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

01208473

Voice messaging system which retrieves and stores voice messages from another voice messaging system

Sprachnachrichtensystem welches Sprachmitteilungen sucht und abspeichert von einem anderen Sprachnachrichtensystem

Systeme de messagerie de parole recuperant et enregistrant de messages vocaux d'un autre systeme de messagerie de parole

PATENT ASSIGNEE:

LUCENT TECHNOLOGIES INC., (2143720), 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, (US), (Applicant designated States: all)

INVENTOR:

Cannon, Joseph M. , 913 Harcourt Lane, Harleysville, Pennsylvania 19438, (US)
Johanson, James A. , 147 North 10th Street, Emmaus, Pennsylvania 18049, (US)
Mooney, Phillip D., 508 De Kalb Pike, North Wales, Pennsylvania 19454, (US
LEGAL REPRESENTATIVE:
Williams, David John et al (86433), Page White & Farrer, 54 Doughty Street, London WC1N 2LS, (GB)
PATENT (CC, No, Kind, Date): EP 1051018 A2 001108 (Basic)
APPLICATION (CC, No, Date): EP 303460 000425;
PRIORITY (CC, No, Date): US 305208 990505
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04M-003/533; H04M-007/00

ABSTRACT EP 1051018 A2
Apparatus and method to provide downloading and retrieval of a voice message from a voice mailbox of a voice messaging system associated with a **telephone** company central office for storage and playback by a **telephone** answering device at the user's home or office. The **telephone** answering device includes a voice mail retrieval module which automatically communicates with the central office in response to the receipt of a voice message waiting indicator (VMWI) or similar signal. Alternatively, the voice messages may be downloaded upon request by the user, e.g., by activating an appropriate button or sequence of buttons on the **telephone** answering device. The voice messages may be downloaded from the central office in digital or analog form.
ABSTRACT WORD COUNT: 118
NOTE:
Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 001108 A2 Published application without search report
Change: 010516 A2 Legal representative(s) changed 20010329
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200045	692
SPEC A	(English)	200045	4605
Total word count - document A			5297
Total word count - document B			0
Total word count - documents A + B			5297

INVENTOR:
Cannon, Joseph M ...

...US)
Johanson, James A ...

...ABSTRACT a voice message from a voice mailbox of a voice messaging system associated with a **telephone** company central office for storage and playback by a **telephone** answering device at the user's home or office. The **telephone** answering device includes a voice mail retrieval module which automatically communicates with the central office...

...the user, e.g., by activating an appropriate button or sequence of buttons on the **telephone** answering device. The voice messages may be downloaded from the central office in digital or...

5/5,K/5 (Item 5 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

March 26, 2003

01208440
Call related information receiver to receiver transfer
Ubertragung von Emperfanger zu Empfanger der Information Getreffend eines Rufes
Transfert de recepteur a recepteur de l'information relatif a un appel
PATENT ASSIGNEE:
LUCENT TECHNOLOGIES INC., (2143720), 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, (US), (Applicant designated States: all)
INVENTOR:
Cannon, Joseph M. , 913 Harcourt Lane, Harleysville, Pennsylvania 19438, (US)
Davis, Paul J., 1020 Armstrong Court, Wayne, Pennsylvania 19087, (US)
Johanson, James A. , 6336 Larch Circle, Macungie, Pennsylvania 18062, (US
LEGAL REPRESENTATIVE:
Williams, David John et al (86433), Page White & Farrer, 54 Doughty Street, London WC1N 2LS, (GB)
PATENT (CC, No, Kind, Date): EP 1051021 A2 001108 (Basic)
APPLICATION (CC, No, Date): EP 302531 000328;
PRIORITY (CC, No, Date): US 285671 990504
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04M-015/04; H04Q-011/04

ABSTRACT EP 1051021 A2
A call related information detector/receiver system which is capable of downloading call related information received at that device to another call related information detector/receiver system remote from the system which initially received the call related information, back over the **telephone** line. Thus, a remote user while away from the home or office can receive and synchronize call related information at a system other than the one which initially received the call related information. Thus, a remote user can update a local call related information system and review past callers to their home or business **telephone** at their leisure. Upon establishment of a **telephone** call between customer premises equipment respectively associated with the two relevant call related information detector/receiver systems, a remote call related information system will request download of call related information logged from another call related information system using the established **telephone** call. In the disclosed embodiment, the request signals are encoded with DTMF tones, which the receiving call related information system monitors for. Upon acceptance of a request to transmit logged call related information, previously logged call related information is retrieved from its log, formatted for transmission together with suitable header information such as the identity of the transmitting call related information system, and FSK modulated for transmission back over the **telephone** line. Preferably, the speaker or earpiece of off-hook customer premises equipment will be muted or suppressed during transmission of the data corresponding to the call related information. The particular call related information transmitted may be particularly or generally requested by the remote call related information system, either by pre-stored commands based on a power up configuration of the requesting call related information system, and/or in response to a direct command input by the remote user using DTMF tones.
ABSTRACT WORD COUNT: 293
NOTE:
Figure number on first page: NONE

LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 001108 A2 Published application without search report
Change: 010516 A2 Legal representative(s) changed 20010329
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200045	703
SPEC A	(English)	200045	2901
Total word count - document A			3604
Total word count - document B			0
Total word count - documents A + B			3604

INVENTOR:
Cannon, Joseph M ...

...US)
Johanson, James A ...

...ABSTRACT system remote from the system which initially received the call related information, back over the **telephone** line. Thus, a remote user while away from the home or office can receive and...

...a local call related information system and review past callers to their home or business **telephone** at their leisure. Upon establishment of a **telephone** call between customer premises equipment respectively associated with the two relevant call related information detector...

...download of call related information logged from another call related information system using the established **telephone** call. In the disclosed embodiment, the request signals are encoded with DTMF tones, which the...

...of the transmitting call related information system, and FSK modulated for transmission back over the **telephone** line. Preferably, the speaker or earpiece of off-hook customer premises equipment will be muted...

5/5,K/6 (Item 6 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01172195
Adaptive distance dependent paging signal in cordless telephone
Adaptives, entfernungsabhangiges Aufrufsignal fur ein schnurloses Telefon
Signal d'appel evolutif en function d'une distance pour un telephone **sans fil**
PATENT ASSIGNEE:
LUCENT TECHNOLOGIES INC., (2143720), 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, (US), (Proprietor designated states: all)
INVENTOR:
Cannon, Joseph M. , 913 Harcourt Lane, Harleysville, Pennsylvania 19438, (US)
Johanson, James A. , 6336 Larch Circle, Macungie, Pennsylvania 18062, (US)
Mooney, Philip David, 508 De Kalb Pike, North Wales, Pennsylvania 19454, (US
LEGAL REPRESENTATIVE:
Williams, David John et al (86433), Page White & Farrer, 54 Doughty Street, London WC1N 2LS, (GB)
PATENT (CC, No, Kind, Date): EP 1022887 A1 000726 (Basic)
EP 1022887 B1 030102
APPLICATION (CC, No, Date): EP 2000300372 000119;
PRIORITY (CC, No, Date): US 234737 990121
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04M-001/725; G08B-021/00
CITED PATENTS (EP B): EP 865188 A; EP 876040 A; EP 887779 A; WO 94/06254 A; WO 99/05850 A; DE 19543365 A; GB 2308785 A

ABSTRACT EP 1022887 A1

In one embodiment, a cordless **telephone** according to the invention includes a base unit, including a paging mechanism, and a handset, including an alerting mechanism responsive to the paging mechanism. At least one of the base unit and the handset includes a page adjusting mechanism to affect an alerting signal output from the alerting mechanism based on a condition. Thus, the paging signal is adaptive to increase the opportunity for a user to determine the location of a misplaced handset. In another embodiment, a cordless **telephone** is equipped so that the base unit can provide an indication related to a distance between the base unit and the handset. In yet another embodiment, a cordless **telephone** is equipped so that the paging mechanism is adjusted based on user control. In a further embodiment according to the invention, a method is provided for affecting an alerting signal output by an alerting mechanism of a cordless **telephone** handset. The method includes the steps of sensing a condition, and affecting the alerting signal based on the sensed condition.

ABSTRACT WORD COUNT: 175
NOTE:
Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 000726 A1 Published application with search report
Examination: 000726 A1 Date of request for examination: 20000201
Examination: 000906 A1 Date of dispatch of the first examination report: 20000720
Change: 010307 A1 Legal representative(s) changed 20010118
Change: 010516 A1 Legal representative(s) changed 20010329
Change: 020619 A1 Title of invention (German) changed: 20020427
Change: 020619 A1 Title of invention (English) changed: 20020427
Change: 020619 A1 Title of invention (French) changed: 20020427
Grant: 030102 B1 Granted patent
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200030	742
CLAIMS B	(English)	200301	426
CLAIMS B	(German)	200301	387
CLAIMS B	(French)	200301	484
SPEC A	(English)	200030	2875
SPEC B	(English)	200301	3277
Total word count - document A			3618
Total word count - document B			4574
Total word count - documents A + B			8192

Adaptive distance dependent paging signal in cordless telephone
Signal d'appel evolutif en function d'une distance pour un telephone **sans fil**

INVENTOR:
Cannon, Joseph M ...

...US)
Johanson, James A ...

...ABSTRACT A1
In one embodiment, a cordless **telephone** according to the invention includes a base unit, including a paging mechanism, and a handset...

...a user to determine the location of a misplaced handset. In another embodiment, a cordless **telephone** is equipped so that the base unit can provide an indication related to a distance between the base unit and the handset. In yet another embodiment, a cordless **telephone** is equipped so that the paging mechanism is adjusted based on user control. In a...

...is provided for affecting an alerting signal output by an alerting mechanism of a cordless **telephone** handset. The method includes the

steps of sensing a condition, and affecting the alerting signal...

SPECIFICATION Field of the Invention:
This application is related to the field of cordless **telephony** , and more particularly to a paging feature that enables a user to locate a misplaced cordless **telephone** handset.

Background of the Invention:
Cordless **telephones** are made up of a base unit, which is traditionally connected to a **telephone** wall outlet and to an AC power outlet, and is thus fixed in location, and...

...from the base unit through a set of charge contacts. When in this position, the **telephone** is in an on-hook condition, i.e., is not connected to the central office or to another **telephone** or otherwise engaged in **telephony** activities.
In a second position, the handset is de-coupled from the base unit and ...

...capable of communicating with the base unit through RF communications. When in this position, the **telephone** may be in either an on-hook condition or an off-hook condition. When in the off-hook condition, a user engages in **telephony** activities by using the handset. The handset maintains an RF link with the base unit, and the base unit establishes wired connection to the central office and the public switched **telephone** network (or to an internet service provider based network or any other form of network).
The major advantage of cordless **telephones** , when compared to traditional wired **telephones** , is that cordless **telephones** do not require the user to remain at one given location while engaged in **telephony** activities. Instead, the user is able to roam within range of the base unit, and as long as the handset is within range, the user can engage in **telephony** activities such as initiating outgoing **telephone** calls and receiving incoming **telephone** calls. Typically, as cordless **telephone** technology advances, the range of the RF link between the base and handset continues to...

...features, such as frequency hopping, spread spectrum, forward error correction, etc.
A drawback of cordless **telephones** is that the capability to roam with the handset also creates the opportunity for a...

...For example, a user may roam within the user's home while engaged in a **telephone** conversation, and when the conversation is complete the user may simply put the handset down...
...the user placed the handset when the user later desires to place a new outgoing **telephone** call. To address this problem, cordless **telephones** have developed a feature, typically referred to as the "page" or "handset locator" feature, whereby...

...of the audible signal before it terminates. There is therefore a need for a cordless **telephone** with an adaptive paging feature to adjust to the conditions so that a user can effectively locate a misplaced handset.

Summary of the Invention:
In one embodiment, a cordless **telephone** according to the invention includes a base unit, including a paging mechanism, and a handset...

...a user to determine the location of a misplaced handset.
In another embodiment, a cordless **telephone** is equipped so that the base unit can provide an indication related to a distance between the base unit and the handset. In yet another embodiment, a cordless **telephone** is equipped so that the paging mechanism is adjusted based on user control.

In a...
...is provided for affecting an alerting signal output by an alerting mechanism of a cordless **telephone** handset. The method includes the steps sensing a condition, and affecting the alerting signal based...

...drawings, wherein:
Figure 1 is a simplified block diagram of one embodiment of a cordless **telephone** according to the invention;
Figure 2 is an exemplary flowchart of operation of a cordless **telephone** according to the invention;
Figure 3 is another exemplary flowchart of operation of a cordless **telephone** according to the invention;
Figure 4 is another exemplary flowchart of operation of a cordless **telephone** according to the invention;
Figure 5 is a simplified block diagram of another embodiment of a cordless **telephone** according to the invention; and
Figure 6 is a simplified block diagram of another embodiment of a cordless **telephone** according to the invention.

Detailed Description:
Figure 1 is a simplified block diagram of a cordless **telephone** according to the invention. Cordless **telephone** 105 includes a base unit 107 and a handset 109. Base unit 107 includes a...mechanism affects the alerting signal based on a condition.
Base unit 107 also includes a **telephone** line interface 119 for coupling to a **telephone** line and hence to a network, such as to a public switched **telephone** network via a central office. Base unit 107 also includes a transmit/receive element 121...

...125 and 127. The details of RF communication between base units and handsets of cordless **telephones** are well known to those of skill in the art and will not be discussed...

...make such an adjustment is a receive signal strength indication (RSSI). Traditionally, DSPs in cordless **telephones** determine the received signal strength of the signals between the base and handset to determine ...

...either the base unit 107 or the handset 109 can make routine measurements during a **telephone** call, and the alerting signal may be set based on the presumption that the handset is located at the same place it was located when the **telephone** call was completed (for if the handset was returned to the base unit, a paging...that another signal, other than an audible signal, should be produced. For this example, a **telephone** such as **telephone** 105' shown in Figure 5 can include a visual indicator, such as light emitting diodes (LEDs) 501 on handset 109'.
Figure 6 shows **telephone** 105'' in another embodiment according to the invention. Here, base unit 107' includes an LED...

...are thus provided to improve the ability of a user to locate a misplaced cordless **telephone** handset. Upon reviewing the description of the invention, various additional alternative embodiments and variations of ...

...the present invention. For example, although the inventive concepts are described with respect to cordless **telephony** , they are equally

...SPECIFICATION B1

Field of the Invention:
This application is related to the field of cordless **telephony** , and more particularly to a paging feature that enables a user to locate a misplaced cordless **telephone** handset.

March 26, 2003

Background of the Invention:

Cordless **telephones** are made up of a base unit, which is traditionally connected to a **telephone** wall outlet and to an AC power outlet, and is thus fixed in location, and...

...from the base unit through a set of charge contacts. When in this position, the **telephone** is in an on-hook condition, i.e., is not connected to the central office or to another **telephone** or otherwise engaged in **telephony** activities.

In a second position, the handset is de-coupled from the base unit and ...

...capable of communicating with the base unit through RF communications. When in this position, the **telephone** may be in either an on-hook condition or an off-hook condition. When in the off-hook condition, a user engages in **telephony** activities by using the handset. The handset maintains an RF link with the base unit, and the base unit establishes wired connection to the central office and the public switched **telephone** network (or to an internet service provider based network or any other form of network).

The major advantage of cordless **telephones** , when compared to traditional wired **telephones** , is that cordless **telephones** do not require the user to remain at one given location while engaged in **telephony** activities. Instead, the user is able to roam within range of the base unit, and as long as the handset is within range, the user can engage in **telephony** activities such as initiating outgoing **telephone** calls and receiving incoming **telephone** calls. Typically, as cordless **telephone** technology advances, the range of the RF link between the base and handset continues to...

...features, such as frequency hopping, spread spectrum, forward error correction, etc.

A drawback of cordless **telephones** is that the capability to roam with the handset also creates the opportunity for a...

...For example, a user may roam within the user's home while engaged in a **telephone** conversation, and when the conversation is complete the user may simply put the handset down...

...the user placed the handset when the user later desires to place a new outgoing **telephone** call. To address this problem, cordless **telephones** have developed a feature, typically referred to as the "page" or "handset locator" feature, whereby...

...of the audible signal before it terminates. There is therefore a need for a cordless **telephone** with an adaptive paging feature to adjust to the conditions so that a user can...

...handset from a cordless base unit can be extended to a wireless (e.g., "cellular") **telephone** . Here, since the user does not have control of a fixed base unit, the user...

...volume or varied cadence for successively unanswered incoming calls.

Summary of the Invention

A cordless **telephone** and a method of affecting an alerting signal in accordance with the invention, are defined in claims 1 and 6 respectively.

In one embodiment, a cordless **telephone** according to the invention includes a base unit, including a paging mechanism, and a handset...a user to determine the location of a misplaced handset.

In another embodiment, a cordless **telephone** is equipped so that the base unit can provide an indication related to a distance between the base unit and the handset. In yet another embodiment, a cordless **telephone** is equipped so that the paging mechanism is adjusted based on

used control.
In a...
...is provided for affecting an alerting signal output by an alerting mechanism of a cordless **telephone** handset. The method includes the steps sensing a condition, and affecting the alerting signal based...

...drawings, wherein:
Figure 1 is a simplified block diagram of one embodiment of a cordless **telephone** according to the invention;
Figure 2 is an exemplary flowchart of operation of a cordless **telephone** according to the invention;
Figure 3 is another exemplary flowchart of operation of a cordless **telephone** according to the invention;
Figure 4 is another exemplary flowchart of operation of a cordless **telephone** according to the invention;
Figure 5 is a simplified block diagram of another embodiment of a cordless **telephone** according to the invention; and
Figure 6 is a simplified block diagram of another embodiment of a cordless **telephone** according to the invention.

Detailed Description:
Figure 1 is a simplified block diagram of a cordless **telephone** according to the invention. Cordless **telephone** 105 includes a base unit 107 and a handset 109. Base unit 107 includes a...
...mechanism affects the alerting signal based on a condition.
Base unit 107 also includes a **telephone** line interface 119 for coupling to a **telephone** line and hence to a network, such as to a public switched **telephone** network via a central office. Base unit 107 also includes a transmit/receive element 121...

...125 and 127. The details of RF communication between base units and handsets of cordless **telephones** are well known to those of skill in the art and will not be discussed...

...make such an adjustment is a receive signal strength indication (RSSI). Traditionally, DSPs in cordless **telephones** determine the received signal strength of the signals between the base and handset to determine ...either the base unit 107 or the handset 109 can make routine measurements during a **telephone** call, and the alerting signal may be set based on the presumption that the handset is located at the same place it was located when the **telephone** call was completed (for if the handset was returned to the base unit, a paging...

...that another signal, other than an audible signal, should be produced. For this example, a **telephone** such as **telephone** 105' shown in Figure 5 can include a visual indicator, such as light emitting diodes (LEDs) 501 on handset 109'.
Figure 6 shows **telephone** 105" in another embodiment according to the invention. Here, base unit 107' includes an LED...are thus provided to improve the ability of a user to locate a misplaced cordless **telephone** handset. Upon reviewing the description of the invention, various additional alternative embodiments and variations of...

...the present invention. For example, although the inventive concepts are described with respect to cordless **telephony** , they are equally applicable to other embodiments wherein a user may locate a misplaced item...

...are thus provided to improve the ability of a user to locate a misplaced cordless **telephone** handset. Upon reviewing the description of the invention, various additional alternative embodiments and variations of ...

...the present invention. For example, although the inventive concepts are described with respect to cordless **telephony** , they are equally

applicable to other embodiments wherein a user may locate a misplaced item...

CLAIMS 1. A cordless **telephone** , comprising:
a base unit, including a paging mechanism; and
a handset, including an alerting mechanism...

...an alerting signal output from the alerting mechanism based on a condition.
2. A cordless **telephone** as recited in claim 1, wherein the adjusting mechanism affects the altering signal either based...

...base unit and the handset, or based on an ambient noise measurement.
3. A cordless **telephone** as recited in claim 2, wherein at least a portion of the adjusting mechanism is...

...the receiver and to affect the alerting signal based on the measure.
4. A cordless **telephone** as recited in claim 3, wherein the adjusting mechanism affects the alerting signal either to...

...noise, or to have a tonal quality different from the ambient noise.
5. A cordless **telephone** as recited in claim 1, wherein the alerting signal includes a visual signal that is...
...an estimate of the distance between the base unit and the handset.
6. A cordless **telephone** , comprising:
a base unit, including a paging mechanism; and
a handset, including an alerting mechanism...

...indication related to a distance between the base unit and the handset.
7. A cordless **telephone** as recited in claim 6, wherein the indication is a visual indication provided when the...

...estimated to be more than a threshold distance from the base unit.
8. A cordless **telephone** , comprising:
a base unit, including a paging mechanism; and
a handset, including an alerting mechanism...

...the paging mechanism,

wherein the paging mechanism is adapted for user control.
9. A cordless **telephone** as recited in claim 8, wherein the user control enables a user to adjust the...

...alerting mechanism, or by the alerting mechanism to progressively increase in volume.
10. A cordless **telephone** as recited in claim 9, wherein the handset enables the user to activate a user...

...A method of affecting an alerting signal output by an alerting mechanism of a cordless **telephone** handset, comprising the steps of:
sensing a condition; and
affecting the alerting signal based on...

...CLAIMS B1
1. A cordless **telephone** , comprising:
a base unit (107), including a paging mechanism; and
a handset (109), including an...

...of the distance between the base unit (107) and the handset (109).
2. A cordless **telephone** as recited in claim 1, wherein the adjusting mechanism (113) is adapted to affect the...

...to a signal from the handset (109) to the base unit (107).
3. A cordless **telephone** as recited in claim 2, wherein at least a portion of the adjusting mechanism is...

...receiver (133) and to affect the alerting signal based on the measure.
4. A cordless **telephone** as recited in claim 3, wherein the adjusting mechanism is adapted to affect the alerting...

...noise, or to have a tonal quality different from the ambient noise.
5. A cordless **telephone** as recited in claim 1, wherein the alerting signal includes a visual signal that is...
...method of affecting an alerting signal output by an alerting mechanism (113) of a cordless **telephone** handset (109) in response to a paging signal received from a base unit (107), characterized...

...of the distance between the base unit (107) and the handset (109) of the cordless **telephone** ; and
affecting the alerting signal based on the sensed condition.
7. A method as recited...
...CLAIMS B1
1. **Telephone** sans fil, comprenant :
une unite de base (107), comportant un mecanisme de recherche de personne...

...estimation de la distance entre l'unite de base (107) et le combine (109).
2. **Telephone** sans fil selon la revendication 1, dans lequel le mecanisme d'ajustement (113) est apte...

...portant sur un signal allant du combine (109) a l'unite de base (107).
3. **Telephone** sans fil selon la revendication 2, dans lequel au moins une partie du mecanisme d...

...recepteur (133) et a modifier le signal d'alerte en fonction de cette mesure.
4. **Telephone** sans fil selon la revendication 3, dans lequel le mecanisme d'ajustement est apte a...

...niveau ambiant, soit afin qu'il ait une qualite tonale differente du bruit ambiant.
5. **Telephone** sans fil selon la revendication 1, dans lequel le signal d'alerte inclut un signal...

...signal d'alerte emis en sortie par un mecanisme d'alerte (113) d'un combine **telephonique** sans fil (109) en reponse a un signal de recherche de personne recu d'une...

...estimation de la distance entre l'unite de base (107) et le combine (109) du **telephone** sans fil ; et
modifier le signal d'alerte sur la base de la condition detectee...

5/5,K/7 (Item 7 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01146229
Ring type based on call related information
Wecksignalauswahl basierte auf die einkommende Anrufsinformation
Sonnerie de telephone **controle par une information relative a l'appel entrant**
PATENT ASSIGNEE:
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INVENTOR:
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Johanson, James A. , 6336 Larch Circle, Macungie, Pennsylvania 18062,

(US
LEGAL REPRESENTATIVE:
Watts, Christopher Malcolm Kelway, Dr. et al (37391), Lucent Technologies (UK) Ltd, 5 Mornington Road, Woodford Green Essex, IG8 0TU, (GB)
PATENT (CC, No, Kind, Date): EP 999691 A1 000510 (Basic)
APPLICATION (CC, No, Date): EP 99308430 991025;
PRIORITY (CC, No, Date): US 185518 981104
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04M-019/04

ABSTRACT EP 999691 A1
A **telephone** ring controller includes a database associating all or part of received call related information to any one of an available plurality of audible ring types. In the disclosed embodiments, a call related information/ring type association table is maintained associating area codes, exchange numbers, household names, and/or entire **telephone** numbers to a particular ring type. Alternatively or additionally, ring types may be associated with digits of an incoming **telephone** number. When a match is determined as between received call related information and a pre-stored entry in the call related information/ring type association table, a particular ring is output by a ringer capable of at least two different types of rings. If no match is found, the **telephone** system operates otherwise in a conventional fashion, i.e., a default ring signal is output by the ringer. The entries in the call related information/ring type association table may be input manually using a keypad at the **telephone** system. Alternatively, received call related information with respect to a current (or past) incoming **telephone** call can be stored as an entry in the call related information/ ring type association table and associated with a particular audible ring.
ABSTRACT WORD COUNT: 194
NOTE:
Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 000510 A1 Published application with search report
Withdrawal: 010829 A1 Date application deemed withdrawn: 20001111
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200019	1076
SPEC A	(English)	200019	2818
Total word count - document A			3894
Total word count - document B			0
Total word count - documents A + B			3894

Sonnerie de telephone **controle par une information relative a l'appel entrant**
INVENTOR:
Cannon, Joseph M ...

...US)
Johanson, James A ...

...ABSTRACT A1
A **telephone** ring controller includes a database associating all or part of received call related information to...

...type association table is maintained associating area codes, exchange numbers, household names, and/or entire **telephone** numbers to a particular ring type. Alternatively or additionally, ring types may be associated with digits of an incoming **telephone** number. When a match is determined as between received call related information and a pre...

...capable of at least two different types of rings. If no match is found, the **telephone** system operates otherwise in a conventional fashion, i.e., a default ring signal is output...

...related information/ring type association table may be input manually using a keypad at the **telephone** system. Alternatively, received call related information with respect to a current (or past) incoming **telephone** call can be stored as an entry in the call related information/ ring type association...

...SPECIFICATION relates generally to an apparatus and method for providing a particular ring signal in a **telephone** system. More particularly, it relates to an apparatus and method for providing a particular ring...

...on call related information such as Caller ID information received with respect to an incoming **telephone** call.

Background of Related Art

The use of call related information units with **telephone** systems for recording call related information, e.g., the name and **telephone** number of the calling party, is proliferating at an increasing rate. Using a service such as Caller ID, a calling party's **telephone** number and/or household name may be transmitted by the **telephone** company to the called party's **telephone** . Using Type I service, Caller ID information is transmitted during the silent interval between the first two rings to the called party's **telephone** . Using Type II service, Caller ID information is received while the **telephone** is in an off-hook condition, e.g., Call ID Call Waiting (CIDCW). Of course...

...call related information is transmitted prior to the first ring.

One example of a conventional **telephone** system having the capability to receive call related information, e.g., Caller ID information, is illustrated in Fig. 4. In particular, a **telephone** system 111 includes a call related information detector/receiver 113 adapted to receive a **telephone** number, household name, or other call related information with respect to a calling party, and...

...call related information display device 115. The controller 123 controls the general functions of the **telephone** 111, and may be any suitable processor for the application, e.g., a microprocessor, a digital signal processor, or a microcontroller.

The call related information is received from the central **telephone** office 117 over the **telephone** line 119 via a **telephone** line interface 121. When the **telephone** system 111 is on-hook, the **telephone** number or other call related information (e.g., Caller ID information) about the calling party...

...to view the incoming caller's call related information, the user must nevertheless approach the **telephone** 111 to see the information, causing an inconvenience to the user whenever an incoming **telephone** call is received in determining the source of the **telephone** call and whether or not they want to answer it.

Accordingly, there exists a need...

...a user general call related information without requiring the user to actually approach the called **telephone** .

SUMMARY OF THE INVENTION

In accordance with the principles of the present invention, a **telephone** system comprises a **telephone** line interface, a controller, a call related information receiver, and a call related information/ring...

...signal based on a match determined as between call related information received with an incoming **telephone** call and one of the plurality of entries in the call related information/ring type association table.

A method of outputting a particular ring from a called **telephone** in

accordance with another aspect of the present invention comprises receiving call related information with respect to an incoming **telephone** call, and selecting one of a plurality of different ring signals associated with the incoming **telephone** call based on a pre-stored association of call related information to respective ones of...

...signals.

A method of outputting a particular audible ring from a ringer of a called **telephone** in accordance with yet another aspect of the present invention comprises storing a plurality of...

...with reference to the drawings, in which:

Fig. 1 is a block diagram illustrating a **telephone** which provides a particular audible ring based on call related information received with respect to a **telephone** call constructed in accordance with the principles of the present invention.

Fig. 2 is a...

...chosen, in accordance with the principles of the present invention.

Fig. 4 illustrates a conventional **telephone** providing call related information.

DETAILED DESCRIPTION OF ILLUSTRATIVE EMBODIMENTS

The present invention provides a **telephone** with a chosen one of a plurality of different audible rings based on call related...

...used with a variety of different customer premises equipment including, but not limited to a **telephone** answering device, or a facsimile machine. Moreover, the principles of the present ...customized ring signal.

Fig. 1 illustrates one embodiment of customer premises equipment, e.g., a **telephone** indicated generally at 10, capable of outputting a particular audible ring type selected based on call related information received with respect to a calling party.

The **telephone** 10 utilizes widely available call related information services, e.g., Caller ID services, to identify the source of an incoming **telephone** call. Using all or a portion of the received call related information, the caller can be determined before the incoming **telephone** call is answered by simply listening to the audible ring from the ringer 30 of the **telephone** 10, and thus without the need to disrupt a user's current activities to move toward the **telephone** so as to view a display showing the received call related information.

In the embodiment of Fig. 1, the **telephone** system 10 includes at least one **telephone** line interface 12 for interconnection with a **telephone** company central office 14 via a **telephone** line 16. A handset 18 is connected to the **telephone** line interface 12 to place the **telephone** system 10 is an off-hook condition to connect with incoming and outgoing **telephone** calls.

The **telephone** system 10 further includes a controller 20 to control the functions of the **telephone** system 10. The controller 20 is typically a processor, e.g. a microprocessor, a digital signal processor, or a microcontroller.

A call information detector/receiver 22 is connected to the **telephone** line interface 12 to receive call related information with respect to an incoming **telephone** call, e.g., Caller ID information. The call related information can include, e.g., a **telephone** number and/or a household name associated with the incoming **telephone** call. A display device 28 displays the call related information received from the calling party...

...of at least two (and preferably many) type audible ring signals is included in the **telephone** 10. The audible rings may differ simply by cadence, by frequency, by volume, or any...

...principles of the present invention.

The audible ring type may be directly related to the **telephone** number of the calling party, e.g., to form a type of Morse code. Thus, three

quick beeps might indicate the digit '3', etc., with pauses in between.
Importantly, the **telephone** 10 includes a database associating all or a portion of call related information to a...

...memory) or other non-volatile storage device accessible by the controller 20.
In particular, the **telephone** 10 includes a call related information/ring type association table 24 containing a plurality of...

...the controller 20 upon manual "acceptance" of the latest received call related information, e.g., **telephone** number, by the activation of a dedicated button.
Alternatively, the entries 202-208 may be...

...a suitable spreadsheet or other application operating on a personal computer, and downloaded to the **telephone** 10 via a modem incorporated into or associated with the **telephone** 10.
Moreover, a plurality of dedicated buttons can be implemented each associated with a particular...

...202-208 in the call related information/ring type association table 24 associating that present **telephone** number 264-268 with the designated ring type 270. Alternatively, a single dedicated button can...

...module 32 may allow the user to create a customized audible ring. For instance, the **telephone** 10 may include, e.g., three keys each representing a particular audible frequency. The length...

...DTMF decoder (not shown) or other means to determine the dialed digits of an outgoing **telephone** number, the entries 202-208 may also be selected based on a present outgoing **telephone** number.
The particular ring type chosen can be 'tested' by the user by allowing the the user to change the selected ring type if desired.
Also, **telephone** numbers from other memory in the **telephone** , e.g., speed dial numbers, can be transferred into the call related information/ring type...

...the call related information/ring type association table 24 can include all or portions of **telephone** numbers, e.g., area code or exchange number, and/or household names. The call related...

...The controller 20 determines which particular ring type is to be associated with the incoming **telephone** call by determining a match of received call related information with an entry 202-208...

...information, or if no call related information is received with respect to a particular incoming **telephone** call, a default or other general audible ring will be output by the ringer 30, e.g., as in conventional **telephones** having a single audible ring.
Some types of call related information services do not precede...

...ID information. In such a case, the first ring signal may be ignored by the **telephone** 10 by not outputting an audible ring corresponding to that ring signal from the central...
...the manufacturer.
Fig. 3 illustrates a flow chart showing an exemplary process by which the **telephone** 10 of Fig. 1 provides a unique audible ring output from its ringer 30.
With...

...1-3, but in particular Fig. 3, a first ring signal is detected on a **telephone** line 16 in step 302. At this point, depending upon the implementation of the invention...

...a default audible ring may be temporarily output by the ringer 30 or the

called **telephone** 10 may ignore the first ring signal until after the call related information is received...

...step 306, or if a match is determined only with the default entry 250, the **telephone** 10 will output a default audible ring from its ringer 30 in step 308 as...

...from the ringer 30 based on the associated ring type.
For home business users, the **telephone** 10 of the present invention can provide immediate audible notification as to whether the incoming **telephone** call is a business call or a personal call based on call related information. For...

...signal type and personal calls having a different particular ring signal type. Similarly, a home **telephone** number can be associated with a particular ring type which will be distinctly recognized by the user without having to glance at a display on the **telephone** .
Although the disclosed embodiments were described with respect to a particular audible ring for each...

...the call related information/ring type association table 24 may simply relate digits of a **telephone** number to particular audible rings, without specifically identifying a particular caller or area code. Thus, for instance, the table may relate a **telephone** number beginning with the number '5' with a particular audible ring, which will be used particular call related information (e.g., a **telephone** number, portion of a **telephone** number, or household name) to a particular one of the available ring signals.
While the...

CLAIMS 1. A **telephone** system, comprising:
a **telephone** line interface;
a controller;
a call related information receiver; and
a call related information/ring...

...signal based on a match determined as between call related information received with an incoming **telephone** call and one of said plurality of entries in said call related information/ring type association table.
2. The **telephone** system according to claim 1, wherein:

said call related information receiver is a Caller ID information receiver.
3. A **telephone** ringer, comprising:
a controller adapted to control operations of a **telephone** ;
a call related information detector/receiver adapted to receive call related information with respect to an incoming **telephone** call; and

a ringer control module in communication with said controller, said ringer control module...
...related information received by said call related information detector/receiver with respect to said incoming **telephone** call.
4. The **telephone** according to claim 3, wherein:

said call related information is Caller ID information.
5. The **telephone** according to claim 3, wherein:

said call related information is at least a portion of a **telephone** number.
6. The **telephone** according to claim 3, wherein:

said call related information is a household name.
7. A method of outputting a particular ring from a called **telephone** , said method comprising:

receiving call related information with respect to an incoming **telephone** call; and
selecting one of a plurality of different ring signals associated with said incoming **telephone** call based on a pre-stored association of call related information to respective ones of...

...of different ring signals.
8. The method of outputting a particular ring from a called **telephone** according to claim 7, further comprising:

transmitting said selected one of said plurality of different ring signals as an electronic signal from a central office to a called **telephone** .
9. The method of outputting a particular ring from a called **telephone** according to claim 7, wherein:

said plurality of ring signals are audible ring signals.
10. The method of outputting a particular ring from a called **telephone** according to claim 7, wherein:

said one of said plurality of different ring signals is...

...ring type association table.
11. The method of outputting a particular ring from a called **telephone** according to claim 7, wherein:

said particular one of said plurality of different ring signals...

...12. A method of outputting a particular audible ring from a ringer of a called **telephone** , said method comprising:
storing a plurality of predetermined call related information;
receiving call related information...

...to said comparison.
13. The method of outputting a particular audible ring from a called **telephone** according to claim 12, wherein:

said predetermined call related information is stored by acceptance of current call related information relating to previously received **telephone** call.
14. The method of outputting a particular audible ring from a called **telephone** according to claim 13, wherein:

said stored call related information is associated with a particular...

...audible ring signals.
15. The method of outputting a particular audible ring from a called **telephone** according to claim 12, further comprising:

providing a default ring signal type to said **telephone** if a match is not found with respect to said comparison.
16. Apparatus for outputting a particular ring from a called **telephone** , comprising:
means for receiving call related information with respect to an incoming **telephone** call; and
means for selecting one of a plurality of different ring signals associated with said incoming **telephone** call based on a pre-stored association of call related information to respective ones of...

...of different ring signals.
17. The apparatus for outputting a particular ring from a called **telephone** according to claim 16, further comprising:

means for 'transmitting said selected one of said plurality of

different ring signals as an electronic signal from a central office to a called **telephone** .

18. The apparatus for outputting a particular ring from a called **telephone** according to claim 16, wherein:

said plurality of ring signals are audible ring signals.

19. The apparatus for outputting a particular ring from a called **telephone** according to claim 16, wherein:
said one of said plurality of different ring signals is...

...ring type association table.

20. The apparatus for outputting a particular ring from a called **telephone** according to claim 16, wherein:

said particular one of said plurality of different ring signals...

...table.

21. Apparatus for outputting a particular audible ring from a ringer of a called **telephone** , comprising:
means for storing a plurality of predetermined call related information;

means for receiving call particular audible ring from a called **telephone** according to claim 21, wherein:

said predetermined call related information is stored by acceptance of current call related information relating to previously received **telephone** call.

23. The apparatus for outputting a particular audible ring from a called **telephone** according to claim 21, wherein:
said stored call related information is associated with a particular...

...audible ring signals.

24. The apparatus for outputting a particular audible ring from a called **telephone** according to claim 21, further comprising:

means for providing a default ring signal type to said **telephone** if a match is not found with respect to said comparison.

25. A **telephone** ringer, comprising:
a controller adapted to control operations of a **telephone** ;
a call related information detector/receiver adapted to receive call related information with respect to an incoming **telephone** call; and

a ringer control module in communication with said controller, said ringer control module...

...related information received by said call related information detector/receiver with respect to said incoming **telephone** call.

5/5,K/8 (Item 8 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01126088
Telephone **status information for customer premises equipment**
Teilnehmeranschlussgerat mit Zustandinformation einer Fernsprechstelle
Information de l'etat d'un telephone **pour un equipement local d'abonne**
PATENT ASSIGNEE:
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PATENT (CC, No, Kind, Date): EP 984605 A2 000308 (Basic)
APPLICATION (CC, No, Date): EP 99306655 990823;
PRIORITY (CC, No, Date): US 144100 980831
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04M-001/00; H04M-001/72; H04M-001/56; H04M-001/57

ABSTRACT EP 984605 A2

Telephone equipment which monitors and/or displays status information relating to a current, last or past **telephone** call at any **telephone** or other customer premises equipment utilizing the same **telephone** line. A phone status display (PSD) displays phone status information as well as call related information regarding incoming calls, e.g., Caller ID information. The status information may include, e.g., whether a **telephone** call was an incoming or outgoing **telephone** call, the date, start and elapsed time of the call, and/or the distance of the **telephone** call (e.g., local or long distance), as well as conventional Caller ID information. The phone status display may be integrated into a **telephone**, or may be a separate device connected to the same **telephone** line as a **telephone** to monitor activity of the use of the **telephone** line by the **telephone** (s) connected thereto.

ABSTRACT WORD COUNT: 138
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LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200010	846
SPEC A	(English)	200010	3658
Total word count - document A			4504
Total word count - document B			0
Total word count - documents A + B			4504

Telephone **status information for customer premises equipment**
Information de l'etat d'un telephone **pour un equipement local d'abonne**
INVENTOR:
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...ABSTRACT A2

Telephone equipment which monitors and/or displays status information relating to a current, last or past **telephone** call at any **telephone** or other customer premises equipment utilizing the same **telephone** line. A phone status display (PSD) displays phone status information as well as call related...

...calls, e.g., Caller ID information. The status information may include, e.g., whether a **telephone** call was an incoming or outgoing **telephone** call, the date, start and elapsed time of the call, and/or the distance of the **telephone** call (e.g., local or long distance), as well as

conventional Caller ID information. The phone status display may be integrated into a **telephone** , or may be a separate device connected to the same **telephone** line as a **telephone** to monitor activity of the use of the **telephone** line by the **telephone** (s) connected thereto.

SPECIFICATION Field of the Invention

This invention relates generally to **telephonic** customer premises equipment. More particularly, it relates to the display of status information regarding a **telephone** line at on- or off-hook customer premises equipment.

Background of Related Art

Telephones have become an essential part of our society. Virtually every home and office contains at least one **telephone** . In fact, **telephones** and other customer premises equipment such as FAX machines have become so prevalent that many homes and offices have **telephone** lines with more than one **telephone** or other customer premises equipment utilizing the same **telephone** line.

In a home or office wherein a plurality of **telephones** are disbursed throughout separate rooms, it is often difficult to determine whether or not the **telephone** line is in use from any of the **telephones** without picking up an unused **telephone** and listening. This technique interrupts those already engaged in conversation using the **telephone** line and causes an invasion of the privacy of those using the **telephone** .

Moreover, even more difficult than determining whether or not a **telephone** line is in use is determining either the length of the call made from another **telephone** (without repeatedly picking up an unused **telephone**) or the point at which the **telephone** line becomes available. Furthermore, the amount of use of a **telephone** by a minor at their own private extension and/or who they are speaking with...

...information cannot be determined using conventional customer premises equipment.

There is thus a need for **telephone** equipment which allows a **telephone** line to be usefully and/or non-invasively monitored either by the **telephone** equipment actively engaged in use of the **telephone** line or by other **telephone** equipment connected to the same **telephone** line.

Summary Of The Invention

In accordance with the principles of the present invention, a...

...status display device comprises a high impedance monitoring circuit to monitor a status of a **telephone** call utilizing a **telephone** line. A display indicates either a direction of the **telephone** call utilizing the **telephone** line, a distance between parties engaged in the **telephone** call, or an elapsed time of the **telephone** call utilizing the **telephone** line.

In another aspect of the present invention, a phone status display device comprises a high impedance monitoring circuit to monitor a status of a **telephone** call utilizing a **telephone** line. An indicator is adapted to indicate that another device in communication with the **telephone** line is off-hook while the phone status display device is on-hook.

A method of indicating a status of a **telephone** call utilizing a **telephone** line in accordance with the principles of the present invention comprises monitoring a status of the **telephone** call engaging a first, off-hook device with a second, on-hook device. A status of the **telephone** call engaging the first device is displayed at the second device.

Another method of indicating a status of a **telephone** call utilizing a **telephone** line comprises detecting, at a first device in communication with a **telephone** line, DTMF tones on the **telephone** line provided by a second device in communication with the **telephone** line. The DTMF tones are decoded to determine a **telephone** number dialed from the second

device, and the dialed **telephone** number is displayed at the first device.

Brief Description Of The Drawings

Features and advantages...

...diagram of a customer premises equipment which is capable of displaying current status of a **telephone** call with the equipment in accordance with an embodiment of the present invention.

Fig. 2...

...of a customer premises equipment including a display for displaying the current status of a **telephone** call with the equipment in accordance with the principles of the present invention.

Fig. 3...

...5A is a block diagram showing two customer premises equipment capable of operation with a **telephone** call together with a phone status display all utilizing the same **telephone** line in accordance with another embodiment of the present invention.

Fig. 5B is a perspective...

...equipment which monitors and/or displays status information relating to a current, last or past **telephone** call. The specific embodiments disclosed relate to a digital **telephone** , but the principles of the present invention relate equally to other customer premises equipment or devices which connect to a **telephone** line.

With reference to FIG. 1, customer premises equipment, generally indicated at 10, includes a **telephone** 11 having a call information detector/receiver circuit 12 which receives call related information from a central office 13 over a **telephone** line 14 via a **telephone** line interface (TLI) 48. The **telephone** 11 includes a controller or processor 18 (e.g., a digital signal processor (DSP), microprocessor, or microcontroller) in communication with a voice module 110. The **telephone** 11 interfaces with a **telephone** line 14 from a central office 13 via a conventional **telephone** line interface (TLI) 48.

The voice module 110 includes an analog-to-digital (A/D...

...converter, and a handset 156 including a microphone 22 and a speaker 24. Although the **telephone** 11 disclosed is a digital **telephone** , the invention is equally applicable to analog **telephones** . Thus. a conventional voice module for an analog **telephone** (not shown) may alternatively be used, e.g., including analog components to interface directly between...

...156.

A standard 12- or 16-key keypad 26 allows a user to input dialed **telephone** numbers and to input alphanumeric information for storage and/or use by the processor 18.

Conventional **telephones** are now capable of receiving and displaying call related information, e.g., Caller ID information associated with an incoming call. Using Caller ID, a caller's **telephone** number and/or household name is transmitted by the **telephone** company to the voice messaging machine. Using Type I service, Caller ID information is transmitted, e.g., during the silent interval between the first two rings to a **telephone** in an on-hook condition. Type II customer premises equipment (CPE) receives Caller ID information...

...prior to the first ring, all of which are applicable to the present invention.

The **telephone** 11 includes the capability to receive Caller ID information or other call related information and...

...multi frequency (DTMF) decoder 18a to, e.g., detect touch tone control signals on the **telephone** line 14 relating to an incoming call, i.e., dialed touch tone **telephone** numbers from another **telephone** or other

customer premises equipment in communication with the same **telephone** line 14. The DTMF decoder 18a may either be one or more software modules which...

...dial tone or silence, by reading the level and modulation of the signals on the **telephone** line 14. The processor 18 can distinguish between the tones of DTMF signals and the signal level ranges associated with human speech detected on the **telephone** line 14. If no voice is present on the **telephone** line 14, but DTMF signals are being transmitted, the processor 18 executes the DTMF decoder routine 18a to detect the presence of dialed **telephone** digits over the **telephone** line 14 by another **telephone** or other customer premises equipment. If a separate customer premises equipment unit is provided, a...

...timers preferably begin irregardless of call connection.

Call related information such as, for example, a **telephone** number, area code, household name, time of call, private "P", out of area "O", and...

...phone status display 16 may display information relating to a current, last and/or past **telephone** call, either made at the **telephone** in use or from another **telephone** connected to the same **telephone** line 14.

The phone status display 16 may be co-located with the **telephone** in use connected to the **telephone** line 14, or may be remote therefrom. For instance, the phone status display 16 may be a computer monitor of a personal computer interfaced with the processor 18 of the **telephone** 11 via, e.g., a serial interface.

The displayed phone status information may include, e.g., whether the current, last or past **telephone** call is an incoming call or an outgoing call.

The phone status display 16 may...

...or alternative status information which may be displayed includes whether the current, last or past **telephone** call is local or long distance.

Of course, the phone status display 16 may additionally...

...call can be displayed.

Fig. 2 shows an embodiment of the physical packaging of a **telephone** 11 in accordance with the principles of the present invention.

In particular, the **telephone** 11 may be packaged to fit within a console 30 which includes a control panel...standard handset 34 and a phone jack 36 which can be plugged into any standard **telephone** company modular jack, e.g., an RJ-11 jack. The control panel 32 includes a...

...phone status information as well as call related information regarding incoming calls, e.g., the **telephone** number and/or the household name associated with the incoming call. If there is no...

...status information and/or call related information is not available for that particular call or **telephone** line.

The phone status display 16 may be used to scroll through a log of past status information for calls received and/or placed from **telephone** equipment in communication with the **telephone** line 14 using scroll keys 213, 214. Call related information such as Caller ID information...

...principles of the present invention relates to any call made or received on the same **telephone** line 14, not just calls made or received from the particular **telephone** including the phone status display 16. Thus, in accordance with the principles of the present...

...such as the direction, time, duration and distance of calls made or received at other **telephones** utilizing the same **telephone** line 14 may be remotely monitored and/or logged.

Fig. 3 shows a flow chart of a call received at a **telephone** including a phone status display 16 as shown in Figs. 1 and 2, and Fig. 4 shows a

flow chart of a call initiated or placed from a **telephone** including the phone status display 16, in accordance with the principles of the present invention...

...shown in Fig. 1.

In step 306, status information regarding a current, last or past **telephone** call utilizing the **telephone** line is determined, and in step 308 the status information is generally stored in local memory and/or displayed. The status information may include, e.g., an indication that the **telephone** call was an incoming **telephone** call as shown in step 308a. The status information may also or alternatively indicate the time of the **telephone** call and/or the length of the call as shown in step 308b. The distance of the **telephone** call such as whether or not the **telephone** call is a local **telephone** call or long distance **telephone** call may be indicated as shown in step 308c. The distance in the disclosed embodiment is determined based on received call information, e.g., from the area code of the **telephone** number calling customer premises equipment. However, the distance of the call may be more sophisticated and include an approximate physical distance between the two relevant central offices handling the **telephone** call.

In step 308d, conventional call information such as caller ID may be indicated.

The...

...the call related information database 140 include simple scrolling through call related information regarding past **telephone** calls to the determination of a household name associated with a given (i.e., detected) **telephone** number.

In step 312, the customer premises equipment determines when the current **telephone** call is terminated. If the current **telephone** call is not terminated, then the **telephone** status information displayed in step 308 is updated in step 310, and re-displayed and...

...but shows the display and/or storage of phone status information relating to an outgoing **telephone** call rather than relating to a **telephone** call received by the users of the **telephone** line 14 as is shown in Fig. 3.

In particular, the customer premises equipment initiates a **telephone** call in step 402, invoking the process shown in Fig. 4. The process shown in Fig. 4 may be automatically invoked by any **telephone** call on the **telephone** line 14, or may be selectively requested by a user of the device including the phone status display 16.

In step 404, the **telephone** number dialed by the customer premises equipment is decoded into digital data for use by...

...if necessary. For example, if the processor 18 has a direct indication of the dial **telephone** number as it would if the **telephone** number was dialed directly through the keypad 26, then decoding of DTMF tones may not be necessary.

In step 405, call related information relating to the **telephone** number decoded in step 404 may be looked up in a database such as the...

...or other corollary call related information can be determined based only on the detected dialed **telephone** number.

Steps 306, 310and 312 are substantially as described with respect to Fig. 3.

The display of **telephone** call status information as shown in step 408 of Fig. 4 is similar to the display of **telephone** call status information described with respect to step 308 of Fig. 3, with the exception that the **telephone** call status information in Fig. 4 relates to a **telephone** call initiated from a **telephone** at the **telephone** line 14 rather than to a **telephone** call received on the **telephone** line 14. Thus, an indication of an outgoing **telephone** call rather than an incoming **telephone** call would be displayed in step 408a. The time and length of the **telephone** call, the distance of the **telephone** call,

and/or call related information relating to the **telephone** call may also or alternatively be displayed as shown respectively in steps 408b, 408c, and 408d.

In the embodiment described with respect to Figs. 3 and 4, the **telephone** call status information displayed relates to a **telephone** call received or initiated from the customer premises equipment including a phone status display in accordance with the principles of the present invention. However, the **telephone** status information indicated at the customer premises equipment may instead relate to a **telephone** call initiated by a **telephone** other than the customer premises equipment including the phone status display 16.

For instance, Fig...

...506a. The high impedance monitoring circuit 506a detects call status information with respect to either **telephone** 502 or 504 on the **telephone** line 14 without interfering with the normal operation of the **telephone** line 14. Thus, the phone status display device 520 is sufficiently high in impedance so as to not cause an off-hock indication to the central office or other **telephone** device. An exemplary high impedance monitoring circuit 506a is shown in Fig. 5A(1).

A processor 506b includes a DTMF decoder to decode detected touch tone signals sensed on the **telephone** line 14 through the high impedance monitoring circuit 506a. The phone status display device 520...

...and 2.

Thus, a phone status display device 520 may remotely and non-invasively monitor **telephone** activity made or received by any **telephone** in communication with the same **telephone** line. For instance, the phone status display device 520 may monitor a parallel **telephone** on a common **telephone** line to determine when the parallel **telephone** enters an off-hook condition. When such a condition is detected, the phone status display device 520 may monitor the **telephone** line for the presence of DTMF tones from the parallel **telephone** representing dialed digits of a **telephone** number. The phone status display device 520 may also monitor when the parallel **telephone** goes back on-hook to reduce unnecessary processing due to DTMF tone monitoring while the parallel **telephone** is on-hook.

The phone status display device 520 may also monitor incoming calls to ...

...status display device 520.

In particular, the phone status display device 520 includes a conventional **telephone** jack 36 such as an RJ-11 for interconnection with the **telephone** line 14. The phone status display device 520 includes a processor 506b (Fig. 5A) for converting analog signals such as touch tone signals received from the **telephone** line 14 into digital samples, which are decoded by a DTMF decoder routine into separate digits of a particular **telephone** number as they are dialed by a **telephone** or customer premises equipment in communication with the **telephone** line 14.

Fig. 6 is a flow diagram showing steps of monitoring **telephone** call status information at a phone status display device 520 regarding an incoming call to any **telephone** connected to a particular **telephone** line, and Fig. 7 is a flow diagram showing steps of monitoring **telephone** call status information regarding an outgoing **telephone** call from any **telephone** connected to the particular **telephone** line.

In particular, in step 602 the phone status display device 502 detects the ring signal of an incoming **telephone** call to any **telephone** connected to the same **telephone** line as the phone status display device 502. The phone status display device 502 detects...

...are substantially as described with respect to Fig. 3.

Fig. 7 shows the display of **telephone** call status information monitored by a phone status display device 502 for an outgoing call from any **telephone** connected to the same **telephone** line as the phone status display device 502. Thus, in step 702 the phone status display

device 502 detects the digits of a **telephone** number as they are dialed from a **telephone** or other customer premises equipment on the common **telephone** line. The remaining steps shown in Fig. 7 are substantially and otherwise as described with...

...present invention provides useful information in an effective way to monitor the status of a **telephone** line regardless of which customer premises equipment is or was actively engaged in a **telephone** call. The present invention is of particular use for monitoring the status of a **telephone** line from an inactive **telephone** connected to the **telephone** line. For instance, the invention is of particular use for non-invasively monitoring general information regarding the use of a **telephone** by a minor at another extension in a home without invading the minor's privacy by picking up and listening at another **telephone** on the **telephone** line.

...CLAIMS status display device, comprising:
a high impedance monitoring circuit to monitor a status of a **telephone** call utilizing a **telephone** line; and
a display to indicate a direction of said **telephone** call utilizing said **telephone** line.
2. The phone status display device according to claim 1, wherein:

said high impedance monitoring circuit monitors said status of said **telephone** call utilizing said **telephone** line without itself causing said phone status display device to generate an off-hook condition...

...device according to claim 1, wherein:

said high impedance monitoring circuit is remote from a **telephone** adapted to engage in said **telephone** call utilizing said **telephone** line.
5. The phone status display device according to claim 1, further comprising:

an elapsed time indicator to indicate an elapsed time of said **telephone** call utilizing said **telephone** line.
6. The phone status display device according to claim 1, further comprising:

a distance indicator to indicate a distance between parties engaged in said **telephone** call.
7. A phone status display device, comprising:
a high impedance monitoring circuit to monitor a distance of a **telephone** call utilizing a **telephone** line; and
a distance indicator to indicate a distance between parties engaged in said **telephone** call.
8. The phone status display device according to claim 7, wherein:

said high impedance monitoring circuit is remote from a **telephone** adapted to engage in said **telephone** call utilizing said **telephone** line.
9. The phone status display device according to claim 7, further comprising:

an elapsed time indicator to indicate an elapsed time of said **telephone** call utilizing said **telephone** line.
10. The phone status display device according to claim 7, wherein:

said high impedance monitoring circuit monitors said status of said **telephone** call utilizing said **telephone** line without itself causing said phone status display device to generate an off-hook condition...

...status display device, comprising:
a high impedance monitoring circuit to monitor a status of a **telephone** call utilizing a **telephone** line; and
a display to indicate an elapsed time of said **telephone** call utilizing said **telephone** line.
12. The phone status display device according to claim 11, wherein:

said high impedance monitoring circuit monitors said status of said **telephone** call utilizing said **telephone** line without itself causing said phone status display device to generate an off-hook condition...

...device according to claim 11, wherein:
said high impedance monitoring circuit is remote from a **telephone** adapted to engage in said **telephone** call utilizing said **telephone** line.
14. A phone status display device, comprising:
a high impedance monitoring circuit to monitor a status of a **telephone** call utilizing a **telephone** line; and
an indicator adapted to indicate that another device in communication with said **telephone** line is off-hook while the phone status display device is on-hook.
15. The...

...includes a distance of call indication.
18. A method of indicating a status of a **telephone** call utilizing a **telephone** line, said method comprising:
monitoring a status of said **telephone** call engaging a first, off-hook device with a second, on-hook device;
displaying a status of said **telephone** call engaging said first device at said second device.
19. The method of indicating a status of a **telephone** call utilizing a **telephone** line according to claim 18, wherein said step of monitoring includes:
monitoring said **telephone** line with a high impedance monitoring circuit.
20. A method of indicating a status of a **telephone** call utilizing a **telephone** line, said method comprising:
detecting, at a first device in communication with a **telephone** line, DTMF tones on said **telephone** line provided by a second device in communication with said **telephone** line;
decoding said DTMF tones to determine a **telephone** number dialed from said second device; and
displaying said dialed **telephone** number at said first device.
21. The method of indicating a status of a **telephone** call utilizing a **telephone** line according to claim 20, further comprising:

correlating said dialed **telephone** number with a database including call related information to determine a household name associated with said dialed **telephone** number.
22. The method of indicating a status of a **telephone** call utilizing a **telephone** line according to claim 21, further comprising:

displaying said determined household name at said first device.
23. Apparatus for indicating a status of a **telephone** call utilizing a **telephone** line, comprising:
means for detecting, at a first device in communication with a **telephone** line, DTMF tones on said **telephone** line provided by a second device in communication with said **telephone** line;
means for decoding said DTMF tones to determine a **telephone** number dialed from said second device; and
means for displaying said dialed **telephone** number at said first device.
24. The apparatus for indicating a status of a **telephone** call utilizing a **telephone** line according to claim 23, further comprising:

means for correlating said dialed **telephone** number with a database including call related information to determine a household name associated with said dialed **telephone** number.

25. The method of indicating a status of a **telephone** call utilizing a **telephone** line according to claim 24, further comprising:

means for displaying said determined household name at...

5/5,K/9 (Item 9 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01089444
apparatus and method for selecting an outgoing greeting message based on call related information
Gerat und Verfahren zur Auswahl einer auf Anrufinformation basierten abgehenden Grussnachricht
Appareil et methode pour selecter un message de salutations sortant base sur une information relative a l'appel
PATENT ASSIGNEE:
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PATENT (CC, No, Kind, Date): EP 957622 A2 991117 (Basic)
EP 957622 A3 000412
APPLICATION (CC, No, Date): EP 99303452 990504;
PRIORITY (CC, No, Date): US 75945 980512
DESIGNATED STATES: DE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04M-003/50; H04M-019/04

ABSTRACT EP 957622 A2
A voice messaging system and method includes a voice recorder (20) to store a plurality of outgoing greeting messages, each of the outgoing greeting messages being associated with a respective pre-stored call related information entry in a directory (16). A receiver (12) receives call related information associated with an incoming call. A processor (18) compares the received call related information with the pre-stored call related information to select one of the plurality of outgoing greeting messages such that a personalized outgoing greeting message or a default outgoing greeting message may be selected and played based on call related information (e.g., Caller ID information received with respect to the calling party).
ABSTRACT WORD COUNT: 111
NOTE:
Figure number on first page: 1

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Examination: 001115 A2 Date of request for examination: 20000915
Change: 20000412 A2 International Patent Classification changed: 20000222
Withdrawal: 001227 A2 Date of withdrawal of application: 20001103
Application: 991117 A2 Published application without search report
Search Report: 20000412 A3 Separate publication of the search report

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9946	715
SPEC A	(English)	9946	2790
Total word count - document A			3505
Total word count - document B			0
Total word count - documents A + B			3505

INVENTOR:
Cannon, Joseph M ...

...US)
Johanson, James A ...

...SPECIFICATION installed with private branch exchanges (PBXs) are found in most businesses, while home usage of **telephone** answering devices is ever-increasing.
Conventional voice messaging machines are capable of receiving call related...

...g., Caller ID information associated with an incoming call. Using Caller ID, a caller's **telephone** number and/or household name is transmitted by the **telephone** company to the voice messaging machine. Using Type I service, Caller ID information is transmitted during the silent interval between the first two rings to a **telephone** in an on-hook condition. Type II customer premises equipment (CPE) receives Caller ID information ...

...information is shown in FIG. 4.
In particular, customer premises equipment 111 such as a **telephone** answering device (TAD) includes a caller ID detector/receiver 112 adapted to receive a **telephone** number or other call related information about a calling party from the central office 113 over the **telephone** line 114 via **telephone** line interface 148. For Type I functionality, when the TAD 111 is on-hook, the **telephone** number or other call related information (e.g., Caller ID information) about the calling party...

...is a processor, e.g., a microprocessor, a digital signal processor, or a microcontroller.
The **telephone** number and/or the calling party's household name associated with that **telephone** number are displayed on a display device 104. The TAD 111 further includes a voice...

...Of Illustrative Embodiments
The present invention relates to a voice messaging system such as a **telephone** answering device or voice mail system which selects an outgoing greeting message or announcement based on call related information associated with an incoming call. The embodiment described is a **telephone** answering device, but the principles disclosed are equally applicable to voice messaging systems in general.
With reference to FIG. 1, a **telephone** answering system, generally indicated at 10, includes a **telephone** answering device (TAD) 11 having a call information detector/receiver circuit 12. The call information detector/receiver receives call related information from a central office 13 over a **telephone** line 14 via **telephone** line interface (TLI) 48.
The TAD 11 includes a voice module 110, including the voice...
...present specification by reference.
Call related information, e.g., Caller ID information such as a **telephone** number and/or the household name of the calling party is transmitted to the TAD...

...CIDCW) information. The call related information is generally stored in a centralized database at the **telephone** company central office 13 which

provides the call related information service, e.g., Caller ID...

...RECORD, ERASE and STOP signals.
The received call related information such as, for example, a **telephone** number, area code, household name, time of call, private "P", out of area "O", and...

...messages and by entering call related information such as at least a portion of a **telephone** number and/or at least a portion of a household name via keypad 26 for...

...standard handset 34 and a phone jack 36 which can be plugged into any standard **telephone** company modular jack, e.g., an RJ-11 jack. The control panel 32 includes a...
...keypad 26. The LCD 104 displays call related information regarding incoming calls, e.g., the **telephone** number and/or the household name associated with the incoming call. If there is no...

...present invention.
In particular, the TAD 11 includes a control circuit 44, memory 46, the **telephone** line interface (TLI) 48, display 104 and voice module 110 as shown and described with...

...time clock circuit 65 provides the TAD 11 with the current time and date.
The **telephone** line interface 48 includes circuitry which permits the TAD 11 to be connected directly to a standard **telephone** module jack, i.e., an RJ-11 jack. The **telephone** line interface 48 also includes various control and monitoring circuits that are common to ordinary **telephones** . These circuits are conventional and may include an electronic **telephone** circuit (not shown) for controlling dialing functions and for interfacing a **telephone** handset. A ring detect circuit 58 detects the ring signal of an incoming call and...

...Data received by the filter and demodulating circuit 60 includes at least data representing the **telephone** number of an incoming call. Data relating to a household name associated with the **telephone** number of the incoming call may also be received by the filter and demodulating circuit...

...recorder playback circuit 20 to transmit or play the selected outgoing greeting message through the **telephone** line interface circuit 48 and to the **telephone** line 14. If there is no match of the incoming call related information with pre...

...a pre-recorded, default outgoing greeting message is transmitted to the calling party via the **telephone** line 14.
In response to the selected outgoing greeting message, if the TAD 11 is ...

...dial tone or silence, by reading the level and modulation of the signals on the **telephone** line 14. The voice recorder/playback circuit 20 can distinguish between the tones of DTMF signals and the signal level ranges associated with human speech detected on the **telephone** line 14. If voice signals are detected, the processor 18 immediately executes a voice record routine. If no voice is present on the **telephone** line 14, but DTMF signals are being transmitted, the processor 18 executes a DTMF decode routine. If there is a dial tone or silence on the **telephone** line 14 for a predetermined period of time, e.g., five seconds, the processor 18...

...CLAIMS message module according to claim 1, wherein:
said pre-stored call related information is a **telephone** number.
5. The message module according to claim 1, wherein:
said pre-stored call related...

...wherein:
said call related information and said pre-stored call related information are each a **telephone** number.
8. The method of selecting a message according to claim 6, wherein:
said call...

...and said pre-stored call related information are each at least a portion of a **telephone** number.
10. The method of selecting a message according to claim 9, wherein:
said at least a portion of said **telephone** number is an area code.
11. The method of selecting a message according to claim...

...said received call related information and said pre-stored call related information are each a **telephone** number.
17. The method according to claim 14, wherein:
said received call related information and...
...wherein:
said call related information associated with each of said plurality of messages is respective **telephone** numbers.
20. The message module according to claim 18, wherein:
said call related information associated...

5/5,K/10 (Item 10 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01081099
Conferencing with a calling party
Konferenz mit einem Anrufer
Conference avec un appelant
PATENT ASSIGNEE:
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PATENT (CC, No, Kind, Date): EP 951168 A2 991020 (Basic)
APPLICATION (CC, No, Date): EP 99302707 990407;
PRIORITY (CC, No, Date): US 60373 980415
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04M-003/56

ABSTRACT EP 951168 A2
A method and apparatusprovides three way conferencing which allows a third party caller to call into an existing **telephone** call at a single line of a called party's **telephone** . In one embodiment, the called party may accept the conferencing of the third party caller based on a review of received call related information, e.g., Caller ID information. The acceptance may be by flashes of the **telephone** line and/or by entry of a predetermined DTMF code. The **telephone** apparatus and/or the central office may maintain a directory of accepted third party callers which are allowed to automatically enter an existing **telephone** call at a called party, unless refused by the called party within a predetermined amount of time. Each entry in the directory of accepted third party callers contains a portion or all of call related information such as a **telephone** number and/or a household name.
ABSTRACT WORD COUNT: 146

NOTE:
Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):
Change: 010516 A2 Legal representative(s) changed 20010329
Application: 991020 A2 Published application without search report
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9942	862
SPEC A	(English)	9942	3902
Total word count - document A			4764
Total word count - document B			0
Total word count - documents A + B			4764

INVENTOR:
Cannon, Joseph M ...

...US)
Johanson, James A ...

...ABSTRACT apparatusprovides three way conferencing which allows a third party caller to call into an existing **telephone** call at a single line of a called party's **telephone** . In one embodiment, the called party may accept the conferencing of the third party caller...

...related information, e.g., Caller ID information. The acceptance may be by flashes of the **telephone** line and/or by entry of a predetermined DTMF code. The **telephone** apparatus and/or the central office may maintain a directory of accepted third party callers which are allowed to automatically enter an existing **telephone** call at a called party, unless refused by the called party within a predetermined amount...

...third party callers contains a portion or all of call related information such as a **telephone** number and/or a household name.

...SPECIFICATION particularly, it relates to apparatus and methods to add a calling party into an existing **telephone** call.

Background of Related Art

Telephone services and advances therewith continue to be in demand in today's society. For instance, cellular **telephones** have provided users with the ability to place or receive **telephone** calls while in a car or walking down a street. Along with these advances and...

...way conferenced calling.

Conventional three way conferenced calling enabled one party already established in a **telephone** call with a second party to place a second **telephone** call to a third party, and then to conference the two separate **telephone** calls together into a single three way **telephone** call. To enable parties having only one **telephone** line to initiate a three way conference call, the two separate **telephone** calls were conferenced at a **telephone** switch, e.g., private branch exchange, either at the customer's premises or at the central office of the **telephone** company, and then transmitted to the initiating party on the single **telephone** line.

Fig. 8 shows a conventional method 600 of accomplishing three way conferenced calling at a central office **telephone** switch, and Figs. 9A to 9C show corresponding states of the conference call.

In particular, in step 602, a **telephone** call is established between party A and party B, each party having a single **telephone** line or only using a single **telephone** line of a multi-line **telephone** . The **telephone** call between party A and party B is depicted in Fig. 9A.

In step 604, at least one of the parties in the **telephone** call established in step 602 has three way calling service, e.g., party A.

That party flashes the **telephone** line to indicate to the switch that the current party (e.g., party B) is...

...g., party A, dials out to or calls a third party C, and establishes a **telephone** call between party A and party C. This is depicted in Fig. 9B, wherein party...

...and party A calls out to party C.

In step 608, party A flashes the **telephone** line again to indicate to the switch to conference together the **telephone** call to party B with the **telephone** call to party C, and to present the same to party A as a single **telephone** call. Thus, a three way call is established between parties A, B and C, as...

...three way calling is convenient and addresses expanding needs for services to a one line **telephone** . However, the conventional technique requires the initiating party, e.g., party A, to call or dial the **telephone** number of the third party C while the other party is placed on hold.

There...

...need for three way conferencing which allows a third party to call into an established **telephone** call between two other parties

Summary Of The Invention

In accordance with the principles of the present invention, a **telephone** conferencing control apparatus comprises a call related information receiver. A memory is adapted to receive...

...relating to call related information regarding a third party caller allowed to enter an existing **telephone** call. A processor compares call related information received by the call related information receiver to ...

...and allows a third party caller regarding the call related information to enter the existing **telephone** call if a match is determined by the comparison.

A method of conferencing a third party caller into an existing **telephone** call in accordance with another aspect of the present invention comprises providing an indication of a **telephone** call from a third party caller to a called party already engaged in an existing **telephone** call. The third party caller is added to the existing **telephone** call at the called party.

Brief Description Of The Drawings

Features and advantages of the...

...Fig. 1 shows a method of allowing a calling third party C into an established **telephone** call between two parties A and B, in accordance with the principles of the present...

...allowed into an established call between two parties A and B.

Fig. 5 shows a **telephone** including a directory of accepted third party callers, in accordance with a third embodiment of...

...invention.

Fig. 6 shows a method of allowing a third party C into an established **telephone** call between two parties A and B using a directory of accepted third party callers...

...invention.

Fig. 8 shows conventional three way conferenced calling wherein a party places a first **telephone** line on hold, calls or dials a third party, and establishes a three way conferenced...

...and apparatus which allows the conferencing of a calling third party C into an established **telephone** call between two parties A and B.

Figs. 1 and 2A to 2D show three...first step or concept 102 of the three way conferencing is the establishment of a **telephone** call between two parties, e.g., party A and party B. This may be accomplished...

...conventional manner, including party A calling party B or party B calling party A. The **telephone** call between party A and party B is depicted in Fig. 2A.

After a **telephone** call is established between two (or more) parties A and B, party A is then able to receive a three way conferencing call.

With one **telephone** call established and active between party A and party B, party A receives an indication of a **telephone** call from a third party C. The indication in the preferred embodiment is call related ...

...Caller ID is a well known service in the United States which typically provides the **telephone** number and household name information about a calling party (e.g., party C) to a...

...A) before the call is answered. Basic call related information is transmitted from the local **telephone** company to the called party A while the called party's **telephone** is in a hung-up or on-hook state, e.g., between the first and...

...or other indication regarding the call related information, a called party A at a conventional **telephone** may decide to not answer the incoming call.

Another **telephone** company service which has become well known and popular is that which allows a third...

...when the other party A is already off-hook, i.e., already in an established **telephone** call with another party (e.g., party B). This service is currently known in the...

...Waiting. Call Waiting allows a party, e.g., party A, who is already using the **telephone** (i.e., in an off-hook state), to receive an audible interruption, click or other...

...caller as desired by placing the first party on hold, e.g., by flashing the **telephone** line.

More recently, call information has been combined with third party caller services to provide...

...customer on waited calls. Therefore, CIDCW is considered an enhancement of the CW service. A **telephone** line may either have call waiting (CW) or CIDCW service enabled, but not both at...

...same time.

Thus, CID is a service which provides display or other data to a **telephone** regarding a calling third party, allowing the user to make a decision as to whether...

...the indication regarding the calling party C, party A adds party C to the existing **telephone** call established between party A and party B. Thus, whereas conventional three way conferenced calling only allowed a party to an existing **telephone** call to dial out to a third party to establish a three way conferenced call...

...three way conference. Fig. 2C depicts party A's acceptance of a point-to-point **telephone** call from party C while party B is on hold at the central office (CO...

...particular, upon receiving an indication that party C is calling, party A may flash the **telephone** line in step 210 to place the current party B on hold.

In step 212, party A accepts the **telephone** call from party C, thus establishing a two way **telephone** call with party C. At this time, party

B is on hold at the switch for the benefit of party A.
In step 214, party A again flashes the **telephone** line, this time to place party C on hold, and re-enters the **telephone** call with party B as shown in step 216.
In step 218, party A adds or conferences the **telephone** call from party C with the **telephone** call to party B, e.g., by flashing the **telephone** line a third time.
Accordingly, party A is able to receive a call from party...

...to signal a switch to allow a third party C to call into an established **telephone** call between two parties A and B are possible.
For instance, Figs. 4A to 4C...

...use of DTMF tones to control the switch.
In Fig. 4A, party A flashes the **telephone** line in step 310 to connect party A with the switch. In step 312, party A enters a predetermined DTMF code via the keypad of their **telephone** to indicate acceptance of a call from party C and thus to establish a **telephone** call with party A. For instance, the key sequence "#2" as transmitted from party A...
...predetermined DTMF code corresponding to an instruction to the switch to return to the held **telephone** call with party B. For example, the key sequence "#1" may indicate to the switch...

...g., '#3', corresponding to an instruction to the switch to establish a conference between the **telephone** calls to party B and party C. In response, the switch will establish a **telephone** connection, i.e., a conference, between the **telephone** line to party B and the **telephone** line to party C, and pass the conferenced call to party A on a single **telephone** line to establish a three way call between party A, party B and party C...

...of the embodiment shown in Fig. 4A wherein in step 320 party A flashes the **telephone** line to place party B on hold. Thereafter, in step 322, party A may skip...

...in a two way call with party C before allowing party C into the established **telephone** call with party B. Instead, the three way call may be immediately established under the...

...of party A.
For instance, party A may enter a predetermined DTMF code after the **telephone** line is flashed in step 320 to instruct the switch to establish a conference between...

...applicable with the use of Caller ID, and when party A recognizes and accepts the **telephone** number and/or household name of party C being displayed on a Caller ID display.
The embodiment shown in Fig. 4B shows a flash of the **telephone** line in step 320 to invoke a routine at the switch which will monitor the **telephone** line from party A for DTMF tones. Alternatively, the **telephone** line from party A could be continuously monitored for the presence of DTMF tones, and...

...same.
For instance, step 330 of Fig. 4C shows that party A, without flashing the **telephone** line, simply enters the predetermined DTMF code using the keypad of their **telephone** to instruct the switch to accept the call from party C, to conference the **telephone** line from party B with the **telephone** line from party C, and to present the same to party A on a single **telephone** line, to thus establish a three way conference between party A, party B and party...

...Fig. 5 shows an embodiment of a customer premises equipment, i.e., a single line **telephone** 400, including a directory of accepted third party callers 402, in accordance with another embodiment of the present

invention.

In particular, the **telephone** 400, which interfaces to a **telephone** line from a central office 13, includes a **telephone** line interface (TLI) 48. A processor (e.g., a microprocessor, microcontroller, and/or digital signal...for display on the display 28. A conventional handset 22 is also interfaced to the **telephone** line via the TLI 48 and/or the processor 18.

Inventively, the **telephone** 400 additionally includes a directory of accepted third party callers 402. The directory of accepted...

...be maintained at the central office 13 for the benefit of the user of the **telephone** 400. The directory of accepted third party callers accepts one or more entries including call...

...party callers who are permitted to automatically conference into an existing call at the called **telephone** 400.

The entries in the directory of accepted third party callers 402 are pre-stored by the user of the **telephone** 400. The entries are entered into the directory of accepted third party callers 402 through...

...callers 402 includes call related information relating to any desired third party, e.g., a **telephone** number, a household name, etc. The entry may include the entire **telephone** number and/or household name, or only a portion of the **telephone** number and/or household name. For instance, an entry in the directory of accepted third party callers 402 may include only an area code of a **telephone** number from which a third party caller may automatically be conferenced into an existing **telephone** call at the called **telephone** . Alternatively, the entry may indicate only a last name of those households allowed to automatically conference into an existing **telephone** call at the called **telephone** .

For instance, a call from party C having a **telephone** number of (800) 555-1212 will be automatically conferenced upon a match between the call ...

...is found, then the calling party will not be allowed to automatically enter the established **telephone** call at the called **telephone** .

Upon automatic conferencing into the existing **telephone** call, an alerting tone may be provided by the central office to the called party ...

...time, the central office will proceed to automatically conference the third party into the existing **telephone** call to or from the called party.

Thus, the calling party, e.g., party C, will either be allowed to conference into an existing **telephone** call at the called party in accordance with the embodiments shown in Figs. 1 to...

...Fig. 6 shows a method 500 of allowing a third party C into an established **telephone** call between two parties A and B using the directory of accepted third party callers 402 as shown in Fig. 5.

In particular, a **telephone** call is established between party A and party B in step 502.

In step 504...

...receives call related information regarding party C, e.g., Caller ID information such as a **telephone** number and/or a household name.

In step 508, the call related information received in...

...a DTMF tone) will be sent to the central office 13 (Fig. 5) from the **telephone** 400 (Fig. 5) indicating that the central office 13 may automatically conference in party C. Alternatively, instead of the accepting signal, the **telephone** 400 may provide a refusal signal (e.g., a DTMF tone) to the central office 13 if the automatic conferencing of party C is refused by the user of the **telephone** 400.

The present invention can be practiced in addition to conventional three way calling methods...

...way conferencing which allows a third party caller to either call in to an established **telephone** call, or to be called by one of the parties in the established **telephone** call as in conventional three way calling techniques.

Although the invention is described with respect to embodiments of a third caller entering an existing **telephone** call, the present invention is equally applicable to conferences including more than three callers. For...

...the principles of the present invention.

In particular, Fig. 7A shows an establishment of a **telephone** call between party A and party B. In Fig. 7B, party C calls party A...

...7C, party A places party B on hold at the central office, and accepts the **telephone** call from party C. In Fig. 7D, party A adds party B to the **telephone** call with party C to establish a three way conference between party A, party B...

CLAIMS 1. A **telephone** conferencing control apparatus comprising:
a call related information receiver;
a memory adapted to receive at...

...relating to call related information regarding a third party caller allowed to enter an existing **telephone** call; and
a processor to compare call related information received by said call related information...

...to allow a third party caller regarding said call related information to enter said existing **telephone** call if a match is determined by said comparison.

2. The **telephone** conferencing control apparatus according to claim 1, wherein:

said call related information is Caller ID information.

3. The **telephone** conferencing control apparatus according to claim 1, wherein:

said call related information includes a **telephone** number.

4. The **telephone** conferencing control apparatus according to claim 1, wherein:

said call related information includes a household name.

5. A method of conferencing a third party caller into an existing **telephone** call between a first party and a second party, said method comprising:
providing an indication of a **telephone** call from a third party caller to the first party; and
adding said third party caller to said existing **telephone** call.

6. The method of conferencing a third party caller into an existing **telephone** call according to claim 5, wherein:

said indication is call related information.

7. The method of conferencing a third party caller into an existing **telephone** call according to claim 6, wherein:

said call related information is Caller ID information.

8. The method of conferencing a third party caller into an existing **telephone** call according to claim 6, wherein:

said call related information includes at least a portion of a **telephone** number.

9. The method of conferencing a third party caller into an existing **telephone** call according to claim 6, wherein:

said call related information includes at least a portion...

...a household name.

10. The method of conferencing a third party caller into an existing **telephone** call according to claim 5, further comprising:
placing the second party on hold; and
accepting at said first party said **telephone** call from said third party caller.

11. The method of conferencing a third party caller into an existing **telephone** call according to claim 5, wherein:

said third party caller is added to said existing **telephone** call at said first party by initiating a predetermined DTMF code at said first party.

12. The method of conferencing a third party caller into an existing **telephone** call according to claim 5, further comprising:

accepting at said first party said **telephone** call from said third party caller by initiating a first predetermined DTMF code at said first party.

13. The method of conferencing a third party caller into an existing **telephone** call according to claim 12, wherein:

said third party caller is added to said existing **telephone** call at said first party by initiating a second predetermined DTMF code at said first party.

14. Apparatus for conferencing a third party caller into an existing **telephone** call, comprising:
means for providing an indication of a **telephone** call from a third party caller to a called first party already engaged in an existing **telephone** call with a second party; and
means for adding said third party caller to said existing **telephone** call at said first party.

15. The apparatus for conferencing a third party caller into an existing **telephone** call according to claim 14, wherein said means for providing an indication comprises:

an indication...

...call related information.

16. The apparatus for conferencing a third party caller into an existing **telephone** call according to claim 15, wherein:

said call related information is Caller ID information.

17. The apparatus for conferencing a third party caller into an existing **telephone** call according to claim 15, wherein:

said call related information includes at least a portion of a **telephone** number.

18. The apparatus for conferencing a third party caller into an existing **telephone** call according to claim 15, wherein:

said call related information includes at least a portion...

...a household name.

19. The apparatus for conferencing a third party caller into an existing **telephone** call according to claim 14, wherein:

said apparatus is adapted and arranged to be located...

...a central office.

20. The apparatus for conferencing a third party caller into an existing **telephone** call according to claim 14, wherein:

said apparatus is adapted and arranged to be located...

...customer premises equipment.
21. The apparatus for conferencing a third party caller into an existing **telephone** call according to claim 14, further comprising:
means for placing the second party on hold; and
means for accepting at said first party said **telephone** call from said third party caller.
22. The apparatus for conferencing a third party caller into an existing **telephone** call according to claim 14, wherein:

said third party caller is added to said existing **telephone** call at said first party by means for initiating a predetermined DTMF code at said first party.
23. The apparatus for conferencing a third party caller into an existing **telephone** call according to claim 14, further comprising:

said first party accepts said **telephone** call from said third party caller by means for initiating a first predetermined DTMF code ...
...said first party.
24. The apparatus for conferencing a third party caller into an existing **telephone** call according to claim 23, wherein:

said third party caller is added to said existing **telephone** call at said first party by means for initiating a second predetermined DTMF code at...

5/5,K/11 (Item 11 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01079002
Telephone **enabling remote programming of a video recording device**
Fernsprechstelle zum Ermoglichen einer Fernprogrammierung eines Videoaufzeichnungsgerats
Telephone **permettant la programmation a distance d'un appareil d'enregistrement video**
PATENT ASSIGNEE:
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INVENTOR:
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LEGAL REPRESENTATIVE:
Williams, David John et al (86433), Page White & Farrer, 54 Doughty Street, London WC1N 2LS, (GB)
PATENT (CC, No, Kind, Date): EP 949796 A2 991013 (Basic)
APPLICATION (CC, No, Date): EP 99301988 990316;
PRIORITY (CC, No, Date): US 45182 980320
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04M-011/00; H04M-001/65

ABSTRACT EP 949796 A2
A user can program the user's VCR when away from home by calling the user's home **telephone** number and remotely interacting with the user's **telephone** which is adapted for programming the VCR in accordance with the invention. A **telephone** answering device (105) according to the invention thus includes an incoming call signal decoder (107) adapted to decode a signal contained within an incoming call, and an output device (109) adapted to output a control signal to a remotely controlled device in response to the decoded signal. In an alternative embodiment, a method of programming a video recording device includes steps of calling, from a

telephone at a remote location, to a **telephone** answering device (105); and providing a programming signal to the **telephone** answering device (105), wherein the **telephone** answering device (105) responds to the programming signal to program the video recording device.

ABSTRACT WORD COUNT: 144

NOTE:

Figure number on first page: 1

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Application: 991013 A2 Published application without search report

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9941	662
SPEC A	(English)	9941	3004
Total word count - document A			3666
Total word count - document B			0
Total word count - documents A + B			3666

Telephone **enabling remote programming of a video recording device**

Telephone **permettant la programmation a distance d'un appareil d'enregistrement video**

INVENTOR:

Cannon, Joseph M ...

...US)

Johanson, James A ...

...ABSTRACT program the user's VCR when away from home by calling the user's home **telephone** number and remotely interacting with the user's **telephone** which is adapted for programming the VCR in accordance with the invention. A **telephone** answering device (105) according to the invention thus includes an incoming call signal decoder (107...

...embodiment, a method of programming a video recording device includes steps of calling, from a **telephone** at a remote location, to a **telephone** answering device (105); and providing a programming signal to the **telephone** answering device (105), wherein the **telephone** answering device (105) responds to the programming signal to program the video recording device.

...SPECIFICATION Applications:

This application is related to co-pending application number 08/953,535, entitled "Cordless **Telephone** System Having a Handset With Non- **telephone** Functionality," filed on October 3, 1997, incorporated herein by reference.

Field of the Invention:

This...

...program the user's VCR when away from home by calling the user's home **telephone** number and remotely interacting with a **telephone** answering device which is adapted for programming the VCR in accordance with the invention. A **telephone** answering device according to the invention thus includes an incoming call signal decoder adapted to...

...embodiment, a method of programming a video recording device includes steps of calling, from a **telephone** at a remote location, to a **telephone** answering device, and providing a programming signal to the **telephone** answering device, wherein the **telephone** answering device responds to the programming signal to program the video recording device.

Brief Description...

...with the accompanying drawings, in which:
Figure 1 is a simplified block diagram of a **telephone** answering device according to the invention;
Figure 2 is a simplified block diagram of a **telephone** answering machine incorporating the **telephone** answering device of Figure 1;
Figure 3 is a simplified block diagram of a cordless **telephone** incorporating the **telephone** answering device of Figure 1; and
Figure 4 is a flowchart of an exemplary method...

...remote location according to the invention.

Detailed Description:
The co-pending application describes a cordless **telephone** having a base unit and a handset, wherein at least one of the base unit...the viewer to rewind and/or search for the point of interruption after completing the **telephone** conversation.
In addition to controlling a video device while the video device is playing a...

...according to the invention. For example, the simplified block diagram of Figure 1 shows a **telephone** answering device 105 including an incoming call signal decoder 107 adapted to decode a signal...

...signal. The incoming call signal decoder 107 receives the incoming call, for example, from a **telephone** line interface 111 which is coupled to a central office of a public switched **telephone** network (PSTN), not shown.
Output device 109 may take the form of an infrared device...
...to one of ordinary skill in the art, and need not be described further herein.
Telephone answering device 105 may be part of a system that performs additional functions beyond those described herein. For example, Figure 2 shows **telephone** answering device 105 incorporated into a **telephone** answering machine 202, including conventional **telephone** answering machine functionality 204 adapted to record and play back incoming calls. In this embodiment...

...signal matches predetermined criteria. Absent the receipt of the predetermined user input code, the conventional **telephone** answering machine functionality 204 will operate in a conventional manner. When a user wishes to...

...in response to an outgoing message, and after signal decoder 107 recognizes the code, the **telephone** answering device 105 enters a video programming mode.
The incoming call signal decoder 107 and conventional **telephone** answering machine functionality 204 may be realized as one or more integrated circuit devices. For...

...including those described herein.
When the user wishes to program the user's VCR via **telephone** answering device 105, for example, as an incoming caller calling in from a remote location, the incoming caller dials the appropriate **telephone** number to establish a connection with **telephone** answering machine 202. In one embodiment, while listening to the outgoing message, the incoming caller initiates a DTMF sequence (by pressing corresponding keys on the incoming **telephone**) that is recognized by incoming call signal decoder 107. **Telephone** answering device 105 enters the video programming mode when the predetermined code is recognized and...

...decoder 107, can initiate programming of the VCR by merely pressing keys on the remote **telephone** corresponding to the VCR-plus number to create corresponding DTMF signals that are readable by...

...used for these functions may be the same memory that is used by the

conventional **telephone** answering machine functionality 204 to accomplish conventional **telephone** answering machine functions. For example, the memory may be associated with or incorporated into a DSP that encompasses the conventional **telephone** answering machine functionality.

Instead of communicating via DTMF signals, the **telephone** answering device 105 may be equipped with a voice recognition module adapted to respond to **telephone** answering machine functionality 204, or as a separate processor or DSP.

Instead of being incorporated into a **telephone** answering machine, Figure 3 shows **telephone** answering device 105 incorporated into a cordless **telephone** 301, such as in a base unit thereof. As such, cordless **telephone** 301 includes conventional cordless **telephone** functionality 303, which functions unless a predetermined DTMF sequence is recognized by incoming call signal...

...the incoming caller wants to affect the VCR.

The output device portion 109 of the **telephone** answering device 105 within the cordless **telephone** 301 may be, for example, an infrared signaling unit or a radio frequency (RF) signaling...

...output device 109 shares physical attributes with an RF signaling unit established for conventional cordless **telephone** functions. For example, an antenna of a base unit of cordless **telephone** 301 that is used to communicate between the base unit and a handset of cordless **telephone** 301 may also be used to communicate between the cordless **telephone** 301 and a VCR for VCR control purposes. Other conventional RF components, such as transmitters and receivers, may also be shared for both cordless **telephone** communication purposes and for VCR control purposes. Preferably, the cordless **telephone** transmissions from such shared elements are at a first frequency, or within a first frequency...

...are at a second frequency or within a second frequency band.

The aforementioned embodiments describe **telephone** answering device 105 within an answering machine in one embodiment and within a cordless **telephone** in another embodiment. Of course, **telephone** answering device 105 may be realized within an apparatus that is a combination answering machine and cordless **telephone** , or within a higher level apparatus that includes answering machine functionality, cordless **telephone** functionality and/or any other functionality, such as facsimile or computing functionality. Also, **telephone** answering device 105 may be a stand alone unit having no functionality other than to...

...showing a method of controlling a VCR or other video device by way of a **telephone** answering device 105 according to the invention. For purposes of this flowchart, it will he presumed that **telephone** answering device 105 is incorporated into a **telephone** answering machine such as **telephone** answering machine 202 of Figure 2, or into a higher level system that includes **telephone** answering machine functionality.

At step 402, an incoming caller places a **telephone** call from a remote location to a **telephone** number corresponding to **telephone** answering machine 202. For example, a user calls the user's home **telephone** number from another location, and engages **telephone** answering machine 202. Although referred to as the "home" **telephone** number, it is understood that the **telephone** number can be for a location other than the user's home location - the important aspect being that the **telephone** number is associated with a location proximate to a target video device.

At step 404, after a predetermined number of rings, conventional **telephone** answering machine functionality 204 of **telephone** answering machine 202 outputs an outgoing message (OGM) to the incoming caller (user). The incoming...

...a personal identification number (PIN), at step 406, by pressing corresponding keys on the remote **telephone** to create DTMF signals. At step 408, the DTMF code is detected by incoming call...

...step 412, a voice prompt is issued by decoder 107, or by another part of **telephone** answering device 105, to prompt the incoming caller for additional information. At step 414, the...

...prompt by providing one or more DTMF signals by pressing corresponding keys on the remote **telephone** . For example, the incoming caller may enter a VCR-Plus number associated with a program...
...show, the VCR owner can place an incoming call to the VCR owner's home **telephone** number. The standard **telephone** answering machine functionality issues an OGM to the incoming caller (VCR owner). During the OGM...

...and can press additional buttons to respond to a voice prompt script issued by the **telephone** answering device 105. When the **telephone** answering device 105 knows the desires of the incoming caller, it can issue control signals via the output device 109.
In an open loop embodiment, the **telephone** answering device 105 is now finished with this task, and awaits additional instructions if/when a subsequent incoming call requests VCR programming. Alternatively, in a closed loop embodiment, **telephone** answering device 105 waits for an acknowledge signal from the VCR before characterizing the task...

...complete. If the acknowledge signal is not received within a predetermined period of time, the **telephone** answering device 105 can reissue the control signals. In such an embodiment, for example, output ...be part of a closed loop control process, whereby the VCR issues prompts to the **telephone** answering device 105, which converts these prompts to voice prompts for issuance to the incoming caller. When the incoming caller responds, the **telephone** answering device 105 issues corresponding control signals to the VCR via output device 109. Through ...

...Figure 4 relies on userinitiation of DTMF signals by pressing corresponding keys on the remote **telephone** . Alternatively, **telephone** answering device 105 may be equipped with a voice recognition module adapted to recognize and...

CLAIMS 1. A **telephone** answering device (105), comprising:
an incoming call signal decoder (107) adapted to decode a signal...

...control signal to a remotely controlled device in response to the decoded signal.
2. A **telephone** answering device (105) as recited in claim 1, wherein the remotely controlled device is a video device.
3. A **telephone** answering device (105) as recited in claim 2, wherein the video device is a video cassette recorder (VCR).
4. A **telephone** answering device (105) as recited in claim 3, wherein the control signal programs the VCR to record a television show.
5. A **telephone** answering device (105) as recited in claim 4, wherein the control signal programs to record the television show at a future time.
6. A **telephone** answering device (105) as recited in claim 1, wherein the remotely controlled device is a...

...control signal programs the VCR to not record a previously programmed television show.
7. A **telephone** answering device (105) as recited in claim 1, wherein the output device (109) comprises an infrared device, and wherein the control signal is an infrared signal.
8. A **telephone** answering device (105) as recited in claim 1, wherein the output device comprises a radio frequency (RF) unit, and wherein the control signal is an RF signal.
9. A **telephone** answering device (105) as recited in claim 8, wherein the **telephone** answering device comprises a cordless **telephone**

(301), and wherein the RF unit comprises an RF transmitter and an antenna as part of a cordless **telephone** base unit.

10. A **telephone** answering device as recited in claim 1, wherein the incoming call signal decoder (107) is...

...video recording device, comprising:
an input unit adapted to receive an input signal from a **telephone** answering device; and
a programming unit adapted to respond to instructions contained within the input...

...input unit is adapted to receive an infrared signal as the input signal from the **telephone** answering device.

13. A video recording device as recited in claim 11, wherein the input...

...is adapted to receive a radio frequency (RF) signal as the input signal from the **telephone** answering device.

14. A system, comprising:
a **telephone** answering device (105), adapted to receive an incoming call, to decode a signal contained within...

...response to the control signal.

15. A system as recited in claim 14, wherein the **telephone** answering device (105) is adapted to produce the control signal as an infrared signal, and...

...to receive the infrared signal.

16. A system as recited in claim 14, wherein the **telephone** answering device (105) is adapted to produce the control signal as a radio frequency (RF...

...to receive the RF signal.

17. A system as recited in claim 16, wherein the **telephone** answering device (105) comprises a cordless **telephone** (301), including a cordless base unit, and wherein the cordless base unit is adapted to ...

...transmission antenna for transmitting the RF signal to the video recording device and to transmit **telephony** information to a cordless handset.

18. A method of programming a video recording device, comprising the steps of:
calling (S 402), from a **telephone** at a remote location, to a **telephone** answering device (105); and
providing a programming signal (S 414) to the **telephone** answering device (105);
wherein the **telephone** answering device (105) responds to the programming signal to program the video recording device.

19. A method as recited in claim 18, further comprising the step of the **telephone** answering device (105) preparing an infrared signal for transmission to the video recording device.

20. A method as recited in claim 18, further comprising the step of the **telephone** answering device (105) preparing a radio frequency (RF) signal for transmission to the video recording...

5/5,K/12 (Item 12 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01076860
Apparatus and method to allow recording of voice messages based on call related information
Vorrichtung und Verfahren zur Aufnahme von Sprachnachrichten auf der Basis der einkommenden Anrufsinformation

March 26, 2003

Appareil et methode d'enregistrement de messages vocaux en fonction d'une information relative a l'appel entrant

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PATENT (CC, No, Kind, Date): EP 948178 A2 991006 (Basic)
APPLICATION (CC, No, Date): EP 99302182 990322;
PRIORITY (CC, No, Date): US 53658 980402
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04M-001/65; H04M-001/66

ABSTRACT EP 948178 A2
A voice messaging system includes pre-storage of a plurality of caller information in an authorized caller/call information directory. Each entry in the authorized caller/call information directory is associated with a respective variable indicating whether or not that caller may record a voice message. If the caller is not authorized to leave a voice message, the voice messaging system remains on-hook. Alternatively, the voice messaging system may go "off-hook" but play a special outgoing message to the unwanted caller. In an alternative mode of operation, the authorized caller/call information directory may contain the call information of those callers who the voice messaging system will not allow to leave a voice message. All other callers may leave a voice message. This allows a user to avoid the inconvenience of listening to voice messages from undesired parties such as from a telemarketer or a stalker.
ABSTRACT WORD COUNT: 143
NOTE:
Figure number on first page: 4

LEGAL STATUS (Type, Pub Date, Kind, Text):
Change: 010516 A2 Legal representative(s) changed 20010329
Application: 991006 A2 Published application without search report
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9940	889
SPEC A	(English)	9940	2865
Total word count - document A			3754
Total word count - document B			0
Total word count - documents A + B			3754

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Cannon, Joseph M ...

...US)
Johanson, James A ...

...SPECIFICATION installed with private branch exchanges (PBXs) are found in most businesses, while home usage of **telephone** answering devices is ever-increasing.

Conventional voice messaging machines are capable of receiving Caller

ID...

...incoming call if a user subscribes to a Caller ID service offered by the local **telephone** company. Using Caller ID, generally a caller's **telephone** number and/or household name is transmitted by the **telephone** company to the customer. Using Type I service, the Caller ID information is transmitted during...

...includes customer premises equipment 111 having a call information detector/receiver 112 which receives a **telephone** number or other call related information of a calling party from the central office 113 over the **telephone** line 114 via **telephone** line interface 148. For Type I functionality, e.g., when the customer premises equipment 111 is on-hook, the **telephone** number or other call related information of the calling party is received by the detector...

...for the application, e.g., a microprocessor, a digital signal processor, or a microcontroller.

The **telephone** number and/or the calling party's household name associated with that **telephone** number are displayed on a display device 128. The TAD 111 includes a voice recorder...

...a voice message. A call related information receiver receives call related information of an incoming **telephone** call. A processor compares the plurality of call information with the received call related information...

...Of Illustrative Embodiments

The present invention relates to a voice messaging system such as a **telephone** answering device or voice mail system which, based on call related information associated with an...

...call, permits only certain callers to record a voice message. The embodiment described is a **telephone** answering device, but the principles disclosed are equally applicable to voice messaging systems in general.

With reference to FIG. 1, a voice messaging system, generally indicated at 10, includes a **telephone** answering device (TAD) 11 having a call information detector/receiver circuit 12 which receives call related information from a central office 13 over a **telephone** line 14 via a **telephone** line interface (TLI) 48. Call related information (e.g. Caller ID information) such as a **telephone** number and/or the household name of the calling party is received by the TAD...

...the disclosed embodiment, the controller 18 is a DSP.

Call related information, e.g., a **telephone** number, area code, and/or household name associated with the incoming call is received by...

...receiver 12 and is compared by a processor 18 with prestored call information, i.e, **telephone** numbers, area codes and/or household names contained in an authorized caller/call information directory keypad 26, information relating to an expected caller such as a **telephone** number, an area code, and/or a household name. Alternatively, a user can enter information...

...an on/off hook detect circuit 70 (FIG. 3) to go "off-hook" permitting a **telephone** connection between the TAD 11 and the calling party, and the voice recorder/playback circuit...

...function, the TAD 11 remains on-hook. Thus, the TAD 11 does not answer the **telephone** for undesired callers.

Alternatively, the TAD 11 could answer all calls, but only allow desired...

...standard handset 34 and a phone jack 36 which can be plugged into any

standard **telephone** company modular jack, e.g., an RJ-11 jack. The control panel 32 includes a...

...LCD 104 may display the call related information of the incoming calls, e.g., the **telephone** number and/or the household name associated with the incoming call. If there is no...

...FIGs. 1 and 2. The TAD 11 includes a control circuit 44, memory 46, a **telephone** line interface (TLI) 48, a display 104 and a voice module 110.

Control circuit 44...

...dial tone and silence, by reading the level and modulation of the signals on the **telephone** line 14. The voice recorder/playback circuit 20 can distinguish between the tones of DTMF signals and the signal level ranges associated with human speech detected on the **telephone** line 14. If voice signals are detected, the processor 18 immediately executes a voice record routine. If no voice is present on the **telephone** line 14, but DTMF signals are being transmitted, the processor 18 executes a DTMF decode routine. If there is a dial tone or silence on the **telephone** line 14 for a predetermined period of time, e.g., five seconds, the processor 18 causes the on/off hook detect circuit 70 to go "on-hook", hanging up the **telephone** terminating the call.

The **telephone** line interface 48 includes circuitry which permits the TAD 11 to be connected directly to a standard **telephone** module jack, i.e., an RJ-11 jack. The **telephone** line interface circuit 48 also includes various control and monitoring circuits that are common to ordinary **telephones** . For ...call information (e.g., caller ID information) relating to an incoming call, e.g., the **telephone** number of an incoming call or a household name associated with the **telephone** number of the incoming call. One protocol which can be used for the otherwise conventional...

...voice/recorder playback circuit 20 to transmit a pre-recorded outgoing greeting message through the **telephone** interface circuit 48 to the **telephone** line 14. Subsequently, the caller is allowed to record a voice message.

If there is...

...voice message on the TAD 11.

When a known caller is calling from a new **telephone** number or a different household such that the Caller ID or other received call related...

...a particular calling party is to be avoided, entry of their call information such as **telephone** number and/or household name will ensure that no messages can be left from that **telephone** number.

Voice message signals are transmitted to and from the voice recorder/playback circuit 20 via the **telephone** line 14, RJ-11 jack 36, and **telephone** line interface 48. The voice message signal is preferably digitized, compressed or encoded using any...

...on LCD 104, with the household name being displayed at 104a and/or the associated **telephone** number being displayed at 104b as shown in FIG. 2.

The present invention has been...

...CLAIMS is constructed and arranged to receive said call related information in the form of a **telephone** number associated with said incoming call.

5. The voice messaging system according to claim 1...

...receive said call related information in the form of at least a portion of a **telephone** number associated with said incoming call.

6. The voice messaging system according to claim 5, wherein:

said at least a portion of a **telephone** number is an area code associated with said incoming call.

7. The voice messaging system...

...voice messaging system according to claim 1, further comprising:
an alpha-numeric keypad; and
a **telephone** handset.

9. The voice messaging system according to claim 1, wherein:
said memory is further...

...may record a voice message;
a receiver to receive call related information of an incoming **telephone** call;
a processor to compare said plurality of call information with said received call related information to identify a respective variable; and
a **telephone** line interface operatively associated with said processor to place said voice messaging system in an...

...17. The method according to claim 15, wherein:
said respective call information are each a **telephone** number.

18. The method according to claim 15, wherein:
said respective call information are each...

...claim 15, wherein:
said respective call information are each at least a portion of a **telephone** number.

20. The method according to claim 19, wherein:
said at least a portion of said **telephone** number is an area code.

21. The method according to claim 12, further comprising:
forwarding...

5/5,K/13 (Item 13 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01074735
Apparatus and method for regrouping voice messages for convenient playback
Vorrichtung und Verfahren zur Umgruppierung von Sprachnachrichten fur eine vereinfachte Wiedergabe
Appareil et methode de regroupement de messages vocaux pour une restitution pratique
PATENT ASSIGNEE:
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PATENT (CC, No, Kind, Date): EP 946032 A2 990929 (Basic)
APPLICATION (CC, No, Date): EP 99302022 990316;
PRIORITY (CC, No, Date): US 48841 980327
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04M-001/65; H04M-001/66

ABSTRACT EP 946032 A2

March 26, 2003

A voice messaging system and method includes a voice recorder/playback device to store a plurality of voice messages associated with a respective plurality of incoming calls. A receiver receives call related information associated with each of the respective plurality of incoming calls. A controller is provided to organize the plurality of voice messages for playback by the voice recorder/ playback device based on pre-stored groupings of expected call related information irrespective of an order in which voice messages are stored. In one aspect the pre-stored groupings relate to various priority levels for playback sequencing. In another aspect the pre-stored groupings relate to a specific voice mailbox or bin to receive the voice message. In yet another aspect, voice recognition techniques may be utilized to query the voice messaging system, either locally or remotely, for voice messages grouped in accordance with the principles of the present invention.
ABSTRACT WORD COUNT: 147
NOTE:
Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 990929 A2 Published application without search report
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9939	1068
SPEC A	(English)	9939	4670
Total word count - document A			5738
Total word count - document B			0
Total word count - documents A + B			5738

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Johanson, James A ...

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Cannon, Joseph M ...

...SPECIFICATION installed with private branch exchanges (PBXs) are found in most businesses, while home usage of **telephone** answering devices is ever-increasing.
Conventional voice messaging machines are capable of receiving call related...

...g., caller ID information, associated with an incoming call. Using caller ID, a caller's **telephone** number and/or household name is transmitted by the **telephone** company to the customer. Using Type I customer premises equipment, the caller ID information is...

...a microcontroller.
The call related information is typically stored in a centralized database at the **telephone** company central office 113 which provides the caller ID service. A call related information detector...

...receives call related information, e.g., caller ID information regarding a calling party via a **telephone** line interface (TLI) 148, which is connected to a central office 113 via a **telephone** line 114. For Type I functionality, when the voice messaging system 111 is on-hook, call related information, e.g., the **telephone** number of the calling party is detected by the call information detector/receiver 112 during...

...interval between the first and second rings. The received call related information, e.g., the **telephone** number is displayed on a call related information display 128. For Type II functionality, the...

...the order in which they were received.
It is recognized by the present inventors that **telephone** messages

generally vary in interest, urgency and/or priority. Certain voice mail systems may allow...Of Illustrative Embodiments

The present invention relates to a voice messaging system such as a **telephone** answering device or voice mail system which controls the playback sequence of voice messages. The embodiments described relate to a **telephone** answering device in particular, but the principles disclosed are equally applicable to voice messaging systems...

...With reference to FIG. 1, a voice messaging system, generally indicated at 10, includes a **telephone** answering device (TAD) 11 having a call information detector/receiver 12 which receives call related information from a central office 13 over a **telephone** line 14 via a **telephone** line interface (TLI) 48.

Call related information, e.g., caller ID information including a **telephone** number and a household name of a calling party may be transmitted to the TAD...

...call related information module 104. Using the call related information module 104 (e.g., a **telephone** number of a calling party) as a basis for regrouping, the regrouping control module may...callers by entering expected call related information into the grouping directory 16b, e.g., a **telephone** number and/or a household name of the expected callers.

The pre-stored call related...

...When a call is received by the TAD 11, call related information such as a **telephone** number and/or a household name associated with the incoming call is received by the...

...information is then compared by controller 18 with pre-stored call related information, e.g., **telephone** numbers and/or household names contained in the regrouping directory 16b (step 210). Each voice... request playback of all messages from, e.g., a sister, based on the sister's **telephone** number. The user would enter the **telephone** number of the sister, and controller 18 of the TAD 11 would search all recorded ...

...for messages associated with call related information which matches the query request, e.g., the **telephone** number of the sister.

The **telephone** number of the sister may be pre-stored in the TAD 11 and selected by...

...standard handset 34 and a phone jack 36 which can be interconnected with any standard **telephone** company modular jack, e.g., an RJ-11 jack. The control panel 32 includes a...

...28 may display the call related information 104 of the incoming calls, e.g., the **telephone** number andlor the household name associated with the incoming call. If there is no call...

...in FIGs. 1 to 3. The TAD 11 includes a control circuit 44, memory 46, **telephone** line interface circuit (TLI) 48, display 28 and voice module 110. The regrouping is associated...

...voice/playback circuit 20 with control signals such as PLAY, RECORD, ERASE and STOP.

The **telephone** line interface circuit 48 includes circuitry which permits the TAD 11 to be connected directly to a standard **telephone** module jack, i.e., an RJ-11 jack. The **telephone** line interface circuit 48 also includes various control and monitoring circuits that are common to ordinary **telephones** . These circuits are conventional and may include an electronic **telephone** circuit (not shown) for controlling dialing functions and for interfacing a **telephone** handset. A ring detect circuit 58 for detecting the ring signal of an incoming call...

...Data received by the filter and demodulating circuit 60 includes at least data representing the **telephone** number of an incoming call. Data

relating to a household name associated with the **telephone** number of the incoming call may also be received by the filter and demodulating circuit...

...message signals are transmitted to and from the voice recorder/playback circuit 20 via the **telephone** line 14, RJ-11 jack 36, and **telephone** line interface 48. The voice message signal is preferably digitized, compressed and presented to the...

...dial tone or silence), by reading the level and modulation of the signals on the **telephone** line 14. The voice recorder/playback circuit 20 can distinguish between the tones of DTMF signals and the signal level ranges associated with human speech detected on the **telephone** line 14. If voice signals are detected, the controller 18 immediately executes a voice record routine. If no voice is present on the **telephone** line 14, but DTMF signals are being transmitted, the controller 18 executes a DTMF decode routine. If there is a dial tone or silence on the **telephone** line 14 for a predetermined period of time, e.g., five seconds, the controller 18 causes the on/off hook detect circuit 70 to go "on-hook", hanging up the **telephone** and thus terminating the call.
The present invention has been described with reference to Type...

...CLAIMS The voice messaging system according to claim 1, wherein:

said call related information includes a **telephone** number.
5. The voice messaging system according to claim 1, wherein:

said call related information...

...The voice messaging system according to claim 6, wherein:

said call related information includes a **telephone** number.
10. The voice messaging system according to claim 6, wherein:

said call related information...

...a voice messaging system according to claim 15, wherein:

said caller ID information includes a **telephone** number.
17. The method of organizing for playback a plurality of voice messages in a...

...a voice messaging system according to claim 18, wherein:

said call related information includes a **telephone** number.
21. The method of organizing for playback a plurality of voice messages in a...

5/5,K/14 (Item 14 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01063300
Call forwarding via three-way calling
Anrufumleitung via Dreierkonferenzanruf
Renvoi d'appel par appel tripartite
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PATENT (CC, No, Kind, Date): EP 938224 A2 990825 (Basic)
APPLICATION (CC, No, Date): EP 98308983 981103;
PRIORITY (CC, No, Date): US 63989 P 971106; US 81687 980520
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04M-003/54; H04M-003/56

ABSTRACT EP 938224 A2

A customer premise equipment (CPE) (105) is adapted to take advantage of a three-way calling feature in order to forward incoming calls on a flexible and less expensive basis. Thus, according to one embodiment of the invention, a method of automatically forwarding an incoming call in a CPE includes the steps of temporarily placing the incoming call in a hold status, calling a forwarding number, and retrieving the incoming call from the hold status to connect the incoming call to the forwarding number. In an alternative embodiment, a CPE includes a flash unit adapted to place an incoming call into a hold status, and a calling unit (113) adapted to call a forwarding number based on call related information associated with the incoming call.

ABSTRACT WORD COUNT: 125
NOTE:
Figure number on first page: 1

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Withdrawal: 010502 A2 Date of withdrawal of application: 20010302
Application: 990825 A2 Published application without search report
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9934	445
SPEC A	(English)	9934	3181
Total word count - document A			3626
Total word count - document B			0
Total word count - documents A + B			3626

INVENTOR:
Cannon, Joseph M ...

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...SPECIFICATION forwarding, and in particular to a method and apparatus to enable call forwarding from a **telephone** for which a three-way calling feature is enabled.

Background of the Invention:

Call forwarding is an optional service provided by some **telephone** service providers which, for a fee, enables a **telephone** subscriber to arrange for incoming calls to be forwarded to a forwarding number. In a typical scenario, the **telephone** subscriber will enable the call forwarding service through a keypad on the **telephone** subscriber's **telephone** (also known as "customer premise equipment" (CPE)). This enablement will cause the **telephone** service provider to readdress calls originally destined for the **telephone** subscriber's **telephone** to instead be addressed to a **telephone** specified by the **telephone** subscriber. For example, if a user of this service is about to leave the user...

...the service by pressing a predetermined code on a keypad of the user's home **telephone** . In response to the signal created by this keypad activation, the **telephone** service provider may prompt the user to enter

a forwarding number. Subsequently, the **telephone** service provider, through a central switch network (also known as "central office"), will cause **telephone** calls to the user's home **telephone** number to instead be connected to the user's work **telephone** number.

From the perspective of the user, conventional call forwarding as described above is inefficient...

...For example, conventional call forwarding can only be initiated or terminated from the user's **telephone** . Thus, for example, if the user forgets to "set" call forwarding before leaving home, the...

...equipment shown in Figure 1.

Detailed Description:

Three-way calling is a feature offered by **telephone** service providers for a monthly or per-call premium. Three-way calling enables a user (first party) engaged in a **telephone** conversation with a second party to grant access to the conversation to a third party...

...typical example, to initiate three-way calling the first party flashes the first party's **telephone** by briefly pressing a switch-hook (also known as a "flash-hook"), temporarily placing the...

...feature to also automatically obtain call forwarding in a manner which is transparent to the **telephone** service provider. In addition to saving the user the additional fee associated with the call...

...present invention provides the user advantages over the conventional call forwarding feature provided by the **telephone** service providers. For example, with call forwarding implemented according to the present invention, the user...

...ID data.

Figure 1 is a simplified block diagram of a CPE, such as a **telephone** or answering machine, configured according to the invention. **Telephone** 105 is coupled to **telephone** line 107. Although referred to herein as a "line", it is understood that **telephone** line 107 may be a wireless, as opposed to a wired, connection to the central switch network. It is further understood that **telephone** line 107 could be a digital line, such as an ISDN line. It is also...

...107 is shown in the illustrative embodiment, any number of lines may be provided to **telephone** 105, and that **telephone** 105 may be able to forward calls received on any of the lines according to the invention.

Line 107 is coupled to conventional **telephone** call handling elements 111 for placing and receiving **telephone** calls in a conventional manner. In addition, line 107 is also coupled to call forwarding...processor (DSP). Such a DSP may also include a portion or all of the conventional **telephone** call handling elements 111. Thus, in one embodiment according to the invention, a DSP configured to support conventional **telephone** call handling functions is further configured to provide for call forwarding according to the invention. The configuration of call forwarding unit 113 with the conventional **telephone** call handling elements 111 into a single processor is purely by way of example and not of limitation. Other configurations are also possible. For example, the conventional **telephone** call handling elements 111 can be incorporated into one processor, such as a single chip...

...the call forwarding unit 113 can be incorporated into another processor. Further, although the conventional **telephone** call handling elements 111 are shown incorporated into **telephone** 105, it is understood that some of these elements, such as **telephone** answering machine elements, may be physically incorporated into a separate package coupled to **telephone** 105.

According to another embodiment, call forwarding unit 113 is coupled to or integrated with...

...to line 107.
Input unit 119 may take the form of a computer connected to **telephone** 105 through an input/output port, or through some other connection, such as an optical....

...however, input unit 119 may take the form of a keypad that is incorporated into **telephone** 105 and that can be configured to be in a programming mode. For example, a...

...forwarded. For example, a user can program call forwarding unit 113 to only forward certain **telephone** calls based on an analysis of call related information, such as caller ID data, associated....

...the forwarding criteria, according to this example, are handled in a conventional manner by conventional **telephone** call handling elements 111. Thus, for example, a user can program call forwarding unit 113 to forward calls received from a particular **telephone** number, and to have all other calls handled by exemplary answering machine elements of the conventional **telephone** call handling elements 111.
The programming available via input unit 119 and programming unit 117 ...
...programming of call forwarding unit 113 while at a location separate from the location of **telephone** 105. For example, a user can call **telephone** 105 from a different location and program call forwarding unit 113 by activating predetermined key...

...by programming unit 117 according to a predetermined script.
Thus, for example, a user calling **telephone** 105 at the **telephone** number corresponding to line 107 can alert the programming unit 117 to the user's...

...call forwarding unit 113 by pressing a predetermined key sequence on the user's distant **telephone** to cause a predetermined dual tone multi-frequency (DTMF) signaling sequence to be received by...

...user may respond to the query by activating appropriate keys on the user's distant **telephone** to provide corresponding DTMF signals to programming unit 117 in order to program the call forwarding unit 113.
Presume, for example, that **telephone** 105 is the user's home **telephone** , and the user initially programmed **telephone** 105 so that all incoming calls will be forwarded to the user's work **telephone** number. If the user is at the user's work location and departs the user...
...handle the incoming call, and the incoming call will then be handled by the conventional **telephone** call handling elements 111.
In a related alternative embodiment, if the forwarding number is busy ...

...forwarding numbers being busy.
Figure 2 provides a flowchart showing an example of operation of **telephone** 105 according to an exemplary scenario. At step 202 a user programs call forwarding unit...

...by activating input unit 119 by, for example, pressing specific keys on a keypad of **telephone** 105. An example of this programming is for the user to set call forwarding unit 113 to forward incoming calls to the user's work **telephone** number. The work **telephone** number can be set by entering the work **telephone** number into the keypad, or preferably can be set by selecting the work **telephone** number from a set of preprogrammed **telephone** numbers. This step of programming may be facilitated by a prompting script run by the...

...is realized. The script can query the user, for example, visually via a display on **telephone** 105, or audibly through a speaker on **telephone** 105.
At step 204, an incoming call to line 107 is received by call

forwarding...

...the caller ID data received with the incoming call to a table of previously programmed **telephone** numbers or incoming caller identities for which call forwarding is either enabled or disabled.
If...

...should not be forwarded, then at step 208 the incoming call is handled by conventional **telephone** call handling elements 111 in a conventional manner. For example, an answering machine unit incorporated into or coupled to **telephone** 105 can process the incoming call by prompting the incoming caller to leave a message for the called party. Conventional **telephone** answering devices typically process an incoming call after a predetermined number of rings, such as...

...determination that the call should not be forwarded, the answering machine unit of the conventional **telephone** call handling elements 111 begins to process the incoming call after the fourth ring at...

...forwarding number. According to this exemplary scenario, step 210 includes determining the user's work **telephone** number set by the user at step 202. In a more detailed example, step 210...of the fact that the incoming call was originally destined for the user's home **telephone** by noting that call related information such as caller ID data associated with the incoming call corresponds to the user's home **telephone** . After forwarding the call, at step 218 the call forwarding unit 113, or an element of the conventional **telephone** call handling elements 111, monitors the call status of the forwarded call, and at step...

...the user's work location, the user can remotely control the call forwarding feature of **telephone** 105 by calling the user's home **telephone** to engage programming unit 117. For example, if the user intends to return home, the...

...call being handled conventionally, such as being handled by an answering machine unit in conventional **telephone** call handling elements 111. If, on the other hand, the user intends to leave the...

...decision at step 206 to forward the call, a determination at step 210 of the **telephone** number of the satellite office, and further processing according to steps 212-220.

5/5,K/15 (Item 15 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01054441
Telephone **with adaptive speed dial method**
Fernsprechstelle mit adaptiven Kurzwahl-Verfahren
Telephone **et methode adaptative de numerotation abregee**
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APPLICATION (CC, No, Date): EP 99300339 990119;
PRIORITY (CC, No, Date): US 9600 980120
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INTERNATIONAL PATENT CLASS: H04M-001/274

ABSTRACT EP 930761 A2
A **telephone** adaptively updates its speed dial memory (107). For example, the **telephone** updates the speed dial memory (107) based on a calling history. An example of a calling history based update according to the invention is to add frequently called **telephone** numbers to the speed dial memory (107) and to drop infrequently called **telephone** numbers from the speed dial memory (107). Another example is to order the **telephone** numbers in the speed dial memory (107) based on the frequency with which they are called.
ABSTRACT WORD COUNT: 86
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LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9929	799
SPEC A	(English)	9929	3806
Total word count - document A			4605
Total word count - document B			0
Total word count - documents A + B			4605

Telephone **with adaptive speed dial method**
Telephone **et methode adaptative de numerotation abregee**

INVENTOR:
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...ABSTRACT A2
A **telephone** adaptively updates its speed dial memory (107). For example, the **telephone** updates the speed dial memory (107) based on a calling history. An example of a calling history based update according to the invention is to add frequently called **telephone** numbers to the speed dial memory (107) and to drop infrequently called **telephone** numbers from the speed dial memory (107). Another example is to order the **telephone** numbers in the speed dial memory (107) based on the frequency with which they are...

SPECIFICATION Field of the Invention:
The invention is directed to the field of **telephony** , and in more particular to a feature incorporated into a **telephone** .

Background of the Invention:
A **telephone** is conventionally "dialed" by a calling party pressing a series of keys on the **telephone** . Each key suppression is sensed by **telephone** circuitry, and converted into a corresponding electrical signal, such as a dual tone multi-frequency (DTMF) signal. A public switched **telephone** network (PSTN), or other central switching system, interprets these DTMF signals, and routes the call appropriately.
As a time saving feature, many **telephones** incorporate "speed dial"

buttons. A typical **telephone** incorporating this feature has on the order of 10 speed dial buttons. Each speed dial button is programmed by the user to correspond to a particular **telephone** number. When a programmed speed dial button is pressed by the user, the **telephone** circuitry creates a series of DTMF signals corresponding to the programmed **telephone** number, and transmits these DTMF signals to the PSTN. Thus, from the perspective of the PSTN, it appears as if the user pressed the keys corresponding to the programmed **telephone** number, when the user in fact merely pressed the speed dial button.

As an alternative, some **telephones** incorporate speed dial functionality without providing separate speed dial buttons for each programmed number. An example of such a **telephone** is one that has a memory button that works in conjunction with the numeric buttons on the **telephone** keypad. For example, a user of such a **telephone** presses "memory" "3" in order to call the **telephone** number programmed for the third memory location, and the **telephone** circuitry acts to produce the corresponding DTMF signals.

A drawback of each type of conventional speed dial **telephone** is that the user must take the time to initially program the speed dial numbers ...

...speed dial memory when circumstances change. For example, if a user has her mother's **telephone** number programmed into the memory location corresponding to the first speed dial button, such that...

...user's mother, then the user must reprogram this memory location if her mother's **telephone** number changes, such as when her mother moves or when her mother's area code...

...then suppression of her mother's speed dial button will no longer result in a **telephone** call to her mother.

A drawback related to the time and effort needed to program...

...never make the effort to initially program the speed dial memory when first acquiring the **telephone** , or make an initial programming effort, but never update the programming when circumstances change, thereby...

...a perpetual out of date state.

Summary of the Invention:

According to the invention, a **telephone** adaptively updates its speed dial memory. For example, the **telephone** updates the speed dial memory based on a calling history. An example of a calling history based update according to the invention is to add frequently called **telephone** numbers to the speed dial memory and to drop infrequently called **telephone** numbers from the speed dial memory. Another example is to order the **telephone** numbers in the speed dial memory based on the frequency with which they are called. Still another example is to keep the most recently called **telephone** numbers in a portion of the speed dial memory, preferably ordered based on call frequency. Yet another example is to keep the most recent incoming **telephone** numbers in speed dial memory, preferably based on call frequency.

Brief Description of the Drawing:

Figure 1 is a simplified block diagram of one embodiment of a **telephone** according to the invention;

Figure 2 is a simplified diagram of a portion of the...

...1; and

Figure 3 is a simplified block diagram of an alternative embodiment of a **telephone** according to the invention.

Detailed Description:

Telephone 105, shown in Figure 1, includes a speed dial memory 107 and a speed dial...

...memory 111 and a score keeping unit 113. The outgoing number memory 111 stores the **telephone** numbers of outgoing calls, and the score keeping unit 113 keeps a count of the...

...allotted thereto. In theory, sufficient memory space can be allotted to store hundreds of outgoing **telephone** numbers, effectively maintaining a record of every **telephone** number called by a typical user of **telephone** 105. In practice, however, a memory size sufficient to store on the order of fifty or one hundred **telephone** numbers should be sufficient.
Score keeping unit 113 maintains a count of the number of...

...Each memory cell in the outgoing number memory 111 is adapted to store an outgoing **telephone** number, and each memory cell in the score keeping unit 113 is adapted to store of the number of times an outgoing call was placed to a corresponding outgoing **telephone** number stored in a cell of outgoing number memory 111.
For example, cell 210 of outgoing number memory 111 stores **telephone** number (410) 267-8172, and cell 310 of score keeping unit 113 stores the number 86, indicating that 86 outgoing **telephone** calls have been placed to the number (410) 267-8172. Similarly, cell 212 stores **telephone** number (201) 280-1308, and corresponding cell 312 stores the quantity 65.

When an outgoing **telephone** call is placed, speed dial updating unit 109 receives the **telephone** number of the outgoing call and compares it to the **telephone** numbers stored in outgoing number memory 111. If there is a match, speed dial updating...

...to 66. If, on the other hand, an outgoing call is placed to a new **telephone** number, such that there is not a match, the new **telephone** number is stored in an empty cell of outgoing number memory 111, and a count...

...speed dial number for each speed dial button appearing on an instrument panel of the **telephone** . In an alternative embodiment according to the invention, speed dial memory 107 contains a plurality...

...only when there is a change in status.
In the embodiment shown in Figure 1, **telephone** 105 includes a speed dial button 115 and a memory view button 117 each coupled...

...speed dial memory 107 is displayed on display unit 119. For example, a plurality of **telephone** numbers can be stored in speed dial memory 107, and user activation of memory view...

...and working down towards less frequently dialed numbers. According to this embodiment, when the desired **telephone** number is displayed, the user can activate speed dial button 115 to initiate a call to the desired **telephone** number.
Display unit 119 may display additional information along with the displayed **telephone** number. For example, display unit 119 may display the name of the party associated with the **telephone** number, may display the time/date of the most recent call to the **telephone** number, may provide an indication of the number of calls placed to the **telephone** number within a given period of time, may provide an indication of the number of calls received from the **telephone** number within the given period of time, etc. Of course, for display unit 119 to...

...memory that stores this information.
This supplemental information is intended to assist the user of **telephone** 105 to identify the **telephone** number to which the user wants to place a call. For example, presume that the...

...and the party is someone the user calls fairly frequently so that the party's **telephone** number is in speed dial memory 107. The user can then

activate memory view button 117 until the party's **telephone** number appears on display unit 119. If the user remembers that the user last called the party on Saturday night, then as the user steps through the displayed **telephone** numbers, the user can look at displayed data regarding the most recent time the **telephone** number was called, in addition to looking at the displayed **telephone** numbers, in order to identify the correct **telephone** number.

When the correct **telephone** number is displayed on display unit 119, the user activates speed dial button 115. This causes speed dial memory 107 to output the **telephone** number to a calling unit 121, which is coupled to the PSTN or other network via a **telephone** line interface (TLI) 123. The calling unit 121 thus places an outgoing call to ... calling unit 121 can place an outgoing call either based on user input of the **telephone** number, or based on receipt of a **telephone** number from speed dial memory 107. In addition to placing the outgoing call, the calling...

...days. This updating can be periodic, such as once per day, and can occur when **telephone** 105 is on hook and otherwise unengaged.

For example, presume that three of the 86 calls to **telephone** number (410) 267-8172, and two of the 65 calls to (201) 280-1308 were...

...cell 312 to be 63. By periodically updating the values based on the threshold, the **telephone** numbers stored in speed dial memory 107 will be the **telephone** numbers to which the most outgoing calls have been placed within a recent period of...

...cell of outgoing number memory 111 is erased or marked for overwriting by a new **telephone** number. Similarly, the corresponding cell of score keeping unit 113 is erased or marked for...

...number memory 111 and score keeping unit 113 can be kept smaller, since all outgoing **telephone** numbers will not be stored therein.

A potential disadvantage of using a time based threshold is that **telephone** numbers will continue to age even during periods of **telephone** inactivity, such as during a vacation period. For example, if the user of **telephone** 105 goes on a one month vacation, and thus does not use **telephone** 105 at all during the one month period, the entire speed dial updating unit 109...

...the threshold can be such that all numbers called within the last thirty days that **telephone** 105 was used will be maintained. Thus, if **telephone** 105 is used intermittently, the calendar time associated with the threshold can adapt based on...

...wiping the memories clean is to set the threshold based on a quantity of outgoing **telephone** calls. For example, the threshold can be set to 500 calls, and can be set...

...Another alternative threshold is based on amount of call time. For example, if a first **telephone** number is called twice, and each call lasts ten minutes, then the first **telephone** number has twenty minutes of call time. A second **telephone** number that is called four times, with each call lasting one minute, yielding four minutes of call time, may thus be evaluated as having less call time than the first **telephone** number.

Regardless of the thresholding scheme, when speed dial updating unit 109 updates the information...

...and score keeping unit 113, it then updates speed dial memory 107 to contain the **telephone** numbers associated with the highest corresponding values in score keeping unit 113. It is also possible, of course, for the **telephone** 105 to allow user programmability in a traditional sense, whereby a user programs in a **telephone** number to be part of the speed dial system. Thus, for example, the invention can allow for one or more

telephone numbers to be part of speed dial memory 107 no matter how often they are called, and for all other **telephone** numbers in speed dial memory 107 to be adaptively set and updated according to the invention.

Figure 3 is a simplified block diagram of **telephone** 105' according to an alternative embodiment according to the invention. Speed dial updating unit 109, outgoing number memory 111, score keeping unit 113, calling unit 121, **telephone** line interface 123 and keypad 124 operate in like manner to their functionality as described above with respect to **telephone** 105. In **telephone** 105', however, a plurality of speed dial buttons, such as five speed dial buttons 361...

...may be provided.

Each of the speed dial buttons 361-369 is associated with a **telephone** number stored in speed dial memory 107. According to one embodiment, display unit 119 displays...

...user activates one of the speed dial buttons, speed dial memory 107 causes the corresponding **telephone** number to be sent to calling unit 121, and calling unit 121 initiates the outgoing call and informs speed dial updating unit 109 of the outgoing **telephone** number.

With as few as five speed dial buttons, it may be practical for display ...

...displaying all five speed dial numbers upon a wakeup, such as upon user activation of **telephone** 105', such as by lifting up a receiver and causing a switchhook transition), however, it...

...greater quantity of speed dial numbers, such as twenty speed dial numbers associated with a **telephone** 105' having 20 speed dial buttons. In such an example, speed dial memory 107 can...

...associated therewith for which display unit 119 is configured). If this is not the desired **telephone** number, the user can activate the second speed dial button, causing display unit 119 to display the corresponding speed dial number. If this is the correct **telephone** number, the user can again activate the second speed dial button to cause an outgoing call to be placed to the displayed **telephone** number.

This embodiment can be extended to enable the user to fixedly program some or...

...113 can keep track of information such as the number of calls received from a **telephone** number, the amount of call time for such calls, time and date of last received...

...above with respect to the outgoing calls. Further, if a call is received from a **telephone** number stored in outgoing number memory 111, Caller ID data associated with the incoming call can be associated with the **telephone** number so that display unit 119 can display the Caller ID data when it displays the **telephone** number.

Caller ID data can also be provided by a central office or private branch exchange (PBX) to which **telephone** 105 or 105' is coupled. For example, a field in speed dial updating unit 109...

...data received from the PBX or central office in conjunction with the storage of a **telephone** number in outgoing number memory 111. The central office can be further configured to provide...

...data to the incoming caller. Examples of call history data include the most recently called **telephone** number(s), an ordering of most frequently called **telephone** numbers, based, for example, on calls placed since a threshold time or within a threshold...

...data or other call related data associating a party name or other information with a **telephone** number.

The speed dial memory 107, speed dial updating unit 109 and calling

unit 121...

...out the functions described herein, or may be a processor configured to carry out conventional **telephone** call handling functions in addition to the inventive functions described herein.

CLAIMS 1. A **telephone** , comprising:
a speed dial memory (107); and
a speed dial updating unit (109) adapted to update the speed dial memory (107) based on calling history.

2. A **telephone** as recited in claim 1, wherein the speed dial updating unit (109) includes an outgoing **telephone** number memory (111) adapted to store outgoing **telephone** numbers associated with outgoing calls, and a score keeping unit (113) adapted to maintain a count of the number of calls to each outgoing **telephone** number.

3. A **telephone** as recited in claim 2, wherein the speed dial updating unit (109) includes a threshold...

...113) maintains a count of the number of calls since the threshold for each outgoing **telephone** number.

4. A **telephone** as recited in claim 3, wherein the threshold is based on a measure of time...

...both a measure of time and a count of a number of calls.

5. A **telephone** as recited in claim 3, wherein the speed dial updating unit (109) updates the speed dial memory based on the count of the score keeping-unit (113).

6. A **telephone** as recited in claim 1, further comprising a speed dial actuating element, wherein the speed...

...unit is adapted to update the memory location based on the calling history.

7. A **telephone** as recited in claim 6, wherein the speed dial actuating element is a button (115...
...is a voice recognition unit adapted to translate a voice recognition signal into a stored **telephone** number.

8. A **telephone** as recited in claim 6, further comprising a calling unit (121) adapted to initiate an outgoing call to a **telephone** number stored in the memory location based on activation of the speed dial button (115, 361-369).

9. A **telephone** as recited in claim 7, further comprising a display unit adapted to display the **telephone** number stored in the memory location (119).

10. A **telephone** as recited in claim 9, wherein the display unit (119) is adapted to associate the displayed **telephone** number with the speed dial button (115, 361-369).

11. A **telephone** as recited in claim 10, further comprising a plurality of speed dial buttons (361-369), wherein the display unit (119) is adapted to display a plurality of **telephone** numbers and associate the displayed **telephone** , numbers with corresponding speed dial buttons (361-369).

12. A **telephone** as recited in claim 10, wherein the speed dial memory (107) has a plurality of memory locations each adapted to store a corresponding **telephone** number, the **telephone** further comprising a memory view button (117), wherein the display unit is adapted to display the **telephone** numbers stored in the memory locations in a meaningful order based on activation of the memory view button (117).

13. A **telephone** as recited in claim 12, further comprising a calling unit (121) adapted to initiate an outgoing call to a **telephone** number stored in the speed dial memory (107) based on activation of the speed dial button (115).

14. A **telephone** as recited in claim 13, wherein the meaningful order is a series order based on frequency of calling, such that the display unit is adapted to display the **telephone** numbers beginning with the

most frequently called **telephone** number, and wherein the calling unit is adapted to call the displayed **telephone** number based on activation of the speed dial button (115).

15. A method of placing an outgoing **telephone** call, comprising the steps of: activating a first button (117) to cause a display of...

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DIALOG(R)File 348:EUROPEAN PATENTS

01047151

Automatic transmission of a voice-to-text message
Automatische Ubertragung von einer Sprache-zu-Text Nachricht
Transmission automatique d'un message texte-parole

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APPLICATION (CC, No, Date): EP 98310051 981208;
PRIORITY (CC, No, Date): US 992115 971217
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
INTERNATIONAL PATENT CLASS: H04M-003/50;

ABSTRACT EP 926871 A2

A voice messaging system includes an input device to accept a destination electronic messaging address, a memory to store a received voice message, a processor to operate an electronic messaging program and to prepare the voice message for electronic transmission, and a transmission device to automatically send the prepared voice message to the destination electronic messaging address. The present invention further provides a method for automatically sending a received voice message to a destination electronic messaging address, including inputting a destination electronic messaging address, storing a voice message, preparing the voice message as an electronic message, and automatically transmitting the voice message to the destination electronic messaging address.

ABSTRACT WORD COUNT: 109

LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 990630 A2 Published application (A1with Search Report ;A2without Search Report)

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9926	926
SPEC A	(English)	9926	3472
Total word count - document A			4398
Total word count - document B			0
Total word count - documents A + B			4398

INVENTOR:
Cannon, Joseph M ...

...US)

March 26, 2003

Johanson, James A ...

...SPECIFICATION in to the answering machine or voice messaging system to hear the message over the **telephone** when the user is away from the voice messaging system.
FIG. 5 shows a remote...

...system 308. A user calls in to the voice messaging system 308 using a remote **telephone** 302 over **telephone** line 502 and public switched **telephone** network (PSTN) 306. The user calls in to determine if any voice messages have been...

...user plays back the voice messages stored at the voice messaging system 308 over the **telephone** 302. However, the user must repeatedly call in to the voice messaging system 308, whether...

...analog (D/A) converter 410, an analog-to-digital (A/D) converter 412, and a **telephone** interface 414. The DSP 408 is connected to ROM 404 and RAM 406 which may...

...408. The digital answering machine 308 may be controlled by keypad entries entered on a **telephone** keypad (not shown) or by dual tone, multiple frequency (DTMF) tones received from remote locations over **telephone** line 114.
Together with other components shown in FIG. 6, the DSP 408 converts an ...

...The DSP 408 also includes a tone generator algorithm to provide DTMF tones to the **telephone** line 114 and a DTMF detector algorithm to detect DTMF tones for recording an incoming...

...voice message in voice messaging system 308, an input voice message is conveyed over the **telephone** line 114 to the **telephone** interface 414, which in turn conveys the incoming voice message to the A/D converter...

...A/D converter 412 is capable of receiving voice and/or tone inputs from the **telephone** line 114. The A/D converter 412 converts the electrical signals representative of the voice...

...playback and DTMF detection mode, the user listens to a recorded message from a remote **telephone** 302 over **telephone** line 114 as shown in FIG. 5. To playback the stored voice message, the user...

...messaging system 308 such that the voice messages are played back audibly at the remote **telephone** 302. The DTMF tones are received by the voice messaging system 308 over the **telephone** line 114 at the **telephone** interface 414 and are conveyed to the A/D converter 412. The DSP 408 receives...to analog signals representative of an audible output and provides the analog signals to the **telephone** line 114 via **telephone** interface 414. The user listens to the recorded voice message from a remote **telephone** 302 over the **telephone** line 502 as shown in FIG. 5.
The conventional digital voice messaging system 308, however...

...an incoming voice message. Repeated remote access to the voice messaging system 308 from remote **telephone** 302 is very inconvenient for the user. Additionally, access fees and other **telephone** company charges may apply for the remote access to the voice messaging system 308.

Summary...

...using electronic messaging according to an embodiment of the present invention.
FIG.2 shows a **telephone** answering device according to the first embodiment of the present invention.

FIG. 3 shows a...
...shows the path of a conventional voice messaging system sending a voice message over a **telephone** network.
FIG. 6 shows a conventional digital answering machine.

Detailed Description Of The Illustrative Embodiments...

...to an embodiment of the present invention.
In FIG. 1, a user of a remote **telephone** 104 leaves a voice message on a **telephone** answering device (TAD) 100 (such as a digital answering machine or other voice messaging system) by calling the TAD 100 using remote **telephone** 104. The remote **telephone** 104 is connected to the PSTN 102 via **telephone** line 502. TAD 100 is connected to the PSTN 102 via **telephone** line 114.
According to the principles of the present invention, the TAD 100 automatically e...

...way paging.
The TAD 100 is connected to ISP 106 via the PSTN 102 and **telephone** lines 114, 504. The ISP 106 in turn is connected to the Internet 108 via ...

...rate trunk line. The computer 112 is connected to the Internet 108 through ISP 110, **telephone** line 506 and a suitable high speed line 122. Alternatively, the TAD 100 may be...to RAM 234, ROM 230, DSP 206, D/A converter 210, A/D converter 212, **telephone** interface 214, and DSP 206 connected to voice message storage RAM 202 and ROM 204...

...may also be used to view other information such as the date and time, the **telephone** number dialed for access to the Internet, or caller ID type information relating to an...

...call. The display device 218 may also be used to observe data received from the **telephone** line 114 through the modem 208 using a standard protocol for interfacing to a display-based **telephone** such as analog display services interface (ADSI).
The TAD 100 accepts input of at least...

...interval such as every 20 minutes, or at designated times such as at midnight when **telephone** charges are presumed lowest. The e-mail feature may be turned off on TAD 100...

...this case, input memory 234 may include a database of e-mail addresses and incoming **telephone** numbers arranged in a table format. Particular incoming **telephone** numbers can trigger different modes within the TAD 100. The database may include a transmission schedule corresponding to the e-mail addresses and incoming **telephone** numbers stored in the database. **Telephone** numbers, corresponding e-mail addresses, and corresponding schedules may be input through input device 216 to develop the database. Caller ID service transfers the **telephone** number of an incoming call to TAD 100 between the first and second rings. Using caller ID, processor 200 searches the database of **telephone** numbers in input memory 234 to detect a match with the **telephone** number of the incoming call. If a match is found, processor 200 e-mails the...

...based on call related information such as caller ID data. For example, a first programmed **telephone** number may correspond to a first programmed e-mail address to which voice messages are e-mailed. A second programmed **telephone** number may correspond to a second programmed e-mail address. A third programmed **telephone** number may correspond to both a first and second e-mail address, and a fourth programmed **telephone** number may correspond to no e-mail address.
E-mail program memory 220 stores a...may also be an MPEG file for e-mailing a message left by a video **telephone** . Alternatively, the file may be the unformatted data as stored in the voice messaging device...

...does not have to repeatedly call the TAD 100 to check for messages, nor pay **telephone** charges to repeatedly dial in to the TAD 100 to check for voice messages. Rather...

...CLAIMS according to claim 13, further comprising:
a processor to determine a match between an incoming **telephone** number and a **telephone** number in said database of caller ID information; and wherein:
said transmission device automatically sends...

5/5,K/17 (Item 17 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01047125
Telephone **answering device wherein the number of rings is controlled by incoming call related information**
Telefonanrufbeantworter mit einer durch die einkommende Anrufsinformation kontrollierten Wecksignalzahl
Repondeur telephonique **avec un nombre de sonneries controle par une information relative a l'appel entrant**
PATENT ASSIGNEE:
LUCENT TECHNOLOGIES INC., (2143720), 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, (US), (Applicant designated States: all)
INVENTOR:
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Johanson, James A. , 147 North 10th Street, Lehigh, Pennsylvania 18049, (US
LEGAL REPRESENTATIVE:
Williams, David John et al (86433), Page White & Farrer, 54 Doughty Street, London WC1N 2LS, (GB)
PATENT (CC, No, Kind, Date): EP 926866 A2 990630 (Basic)
EP 926866 A3 000105
APPLICATION (CC, No, Date): EP 98309931 981204;
PRIORITY (CC, No, Date): US 992113 971217
DESIGNATED STATES: DE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04M-001/66

ABSTRACT EP 926866 A2
A variable ring count device in customer premises equipment (10) is provided and includes a processor (18), a call related information detector/receiver (12) in communication with a **telephone** line (14) and a call related information directory (16) in communication with the processor. The call related information directory (16) associates pre-set call related information with a corresponding ring count. The processor (18) is operable for an incoming call to compare call related information for the incoming call to the pre-set call related information in the call related information directory, and to determine a ring count for the incoming call based on a correlation between the call related information and the pre-set call related information in the call related information directory.
ABSTRACT WORD COUNT: 120
NOTE:
Figure number on first page: 1
LEGAL STATUS (Type, Pub Date, Kind, Text):
Examination: 000823 A2 Date of request for examination: 20000626
Search Report: 20000105 A3 Separate publication of the search report
Change: 030122 A2 Legal representative(s) changed 20021205
Application: 990630 A2 Published application (A1with Search Report ;A2without Search Report)
LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9926	527
SPEC A	(English)	9926	3294
Total word count - document A			3821
Total word count - document B			0
Total word count - documents A + B			3821

Telephone **answering device wherein the number of rings is controlled by incoming call related information**

Repondeur telephonique **avec un nombre de sonneries controle par une information relative a l'appel entrant**

INVENTOR:
Cannon, Joseph M ...
...US)
Johanson, James A ...

...ABSTRACT includes a processor (18), a call related information detector/receiver (12) in communication with a **telephone** line (14) and a call related information directory (16) in communication with the processor. The...

SPECIFICATION Field of the Invention

The present invention relates to a **telephone** answering device (TAD) wherein the number of rings encountered before the TAD begins its outgoing...

...pre-selected number of rings have occurred. This enables a user time to answer the **telephone** before the TAD initiates an outgoing announcing message. Otherwise, the TAD will receive and store...

...not popular selections since there may not be enough time for one to answer the **telephone** before the outgoing announcing message is initiated. Thus, typically, the four ring option is most...

...her own TAD remotely to check messages and is therefore not home to answer the **telephone** . In such a case, it is inconvenient to wait until four rings have occurred before...

...e.g., for call screening purposes, or to allow a facsimile machine connected to the **telephone** line time to pick-up. However, conventional TADs either require a manual switch to be...

...provided and includes a processor, a call related information detector/receiver in communication with a **telephone** line and a call related information directory in communication with the processor. The call related...

...The Illustrative Embodiments

The present invention relates to a voice messaging system such as a **telephone** answering device or voice mail system which adjusts a pre-set number of rings or...

...an incoming call received by the voice messaging system.

The disclosed embodiments relate to a **telephone** answering device in particular, but the principles disclosed herein are equally applicable to voice messaging...

...information, the invention relates to the reception and processing of any call related information.

Many **telephone** companies offer a special service which transmits call related information to a called party while...

...condition. One such service is called Caller ID. Using Caller ID, typically a caller's **telephone** number and/or household name is transmitted by the **telephone** company to the called party generally

during the silent interval between the first two rings111 includes a Caller ID detector and receiver 112 which decodes and displays the **telephone** number and/or household name of a calling party received from a central office 113 over the **telephone** line 114. When the customer premises equipment 111 is on-hook, the **telephone** number and/or household name of the calling party are detected and received by the...

...second rings.
The CPE 111 includes a processor 118 and a display 120. The incoming **telephone** number and other detected Caller ID information are stored in Caller ID memory 117 and...

...provided in accordance with the invention is shown generally indicated at 10 and includes a **telephone** answering device (TAD) 11. A call related information detector and receiver 12 detects and receives...

...in the present embodiment detects and receives Caller ID information, e.g., the caller's **telephone** number and/or household name, as described with respect to the prior art Caller ID...

...related information of the calling party may be stored at a centralized database of the **telephone** company central office 13 which provides the call related information service, such as Caller ID...

...database at the TAD 11.
In the illustrated embodiment, the call related information is a **telephone** number. A processor 18 compares the received **telephone** number to pre-stored **telephone** numbers contained in a **telephone** number/ring count directory 16. When a match between the received **telephone** number and a **telephone** number in the **telephone** number/ring count directory 16 is made, a pre-programmed variable is obtained indicative of a desired ring count associated with the incoming **telephone** number. This pre-programmed ring count variable corresponds to the number of rings to wait...

...first and second rings.
It can be appreciated that, together with or in lieu of **telephone** numbers, **telephone** number/ring count directory 16 may relate other call related information to a pre-programmed...

...count.
Processor 18 may be any suitable microprocessor, digital signal processor (DSP), or microcontroller.
The **telephone** number/ring count directory 16 is stored in memory at the TAD 11, e.g., non-volatile Random Access Memory (RAM). When the incoming **telephone** number or other call related information regarding a calling party matches a **telephone** number or other call related information in the **telephone** number/ring count directory 16, the TAD 11 is automatically set to wait a pre-set number of rings based on the pre-programmed variable associated with that **telephone** number or other call related information in the **telephone** number/ring count directory 16. The TAD 11 will then wait for that many rings...

...numeric keypad 36 for accepting user input to pre-program the variables associated with particular **telephone** numbers or other call related information stored in the **telephone** number/ring count directory 16. For instance, a user may program a short number of rings, e.g., one, when calling from their office **telephone** . Of course, when using Caller ID call related information which is received between the first...

...a match occurs between the incoming call related information and its corresponding entry in the **telephone** number/ring count directory 16.
The user may choose to utilize the present invention to...

...e.g., one, for unknown calling parties such as telemarketers. In this

way, if the **telephone** is still ringing after a few rings, the user knows the calling party is someone important and the added rings give the user extra time to answer the **telephone** before the TAD 11 initiates on outgoing announcing message.

A longer number of rings may allow time for a facsimile machine connected to the **telephone** line 14 to answer a facsimile from an expected party. For instance, the TAD 11...

...to allow a facsimile machine set to answer after seven rings to pick-up the **telephone** call before the TAD 11.

The TAD 11 includes a dual tone, multiple frequency (DTMF...

...controlling the voice recorder/playback circuit 20. Thus, the variable ring count stored in the **telephone** number/ring count directory 16 may be programmed remotely using DTMF tones which are decoded...so is associated with any incoming call for which there is no match on the **telephone** number ring count directory 16.

FIG. 2 shows the TAD 11 packaged to fit within...

...The console 26 may be equipped with a standard handset 30 and a standard modular **telephone** jack 32, e.g., an RJ-11 connector. A control panel 28 includes a liquid...

...noted above, the display 27 may display the call related information, i.e, the incoming **telephone** number and/or the household name associated with the incoming **telephone** number. If there is no match between incoming call related information and information stored in the **telephone** number/ring count directory 16 corresponding to a pre-programmed ring count, the TAD 11...

...the present invention. The TAD 11 includes a control circuit 44, memory 46 and a **telephone** line interface (TLI) circuit 48. Control circuit 44 includes processor 18 which controls the system...

...46. Memory 46 includes programmable read-only memory (ROM) 52 for storing program code. The **telephone** number/ring count directory 16 may be stored in RAM 54. Random access memory (RAM...

...to store log data for call related information, voice message data, and the like.

The **telephone** line interface circuit 48 includes circuitry which permits the TAD 11 to be connected directly to a standard modular **telephone** jack 32, e.g., an RJ-11 connector. The **telephone** line interface circuit 48 also includes various control and monitoring circuits that are common to ordinary customer premises equipment. These circuits may include circuitry to interface the **telephone** handset 30, a ring detect interface circuit 58 provides a signal indicative of a ring ...

...processor 18, and an on/off hook detect circuit 70. In the illustrated embodiment, the **telephone** line interface circuit 48 also includes an isolated filter and demodulating circuit 60 to demodulate...

...and demodulating circuit 60 includes call related information, e.g., Caller ID data representing the **telephone** number of the incoming call. Data corresponding to the household name associated with the incoming...

...its call related information is transmitted by the central office 13 and received by the **telephone** number detector/receiver 12 (FIG. 1), e.g., during the silent period between the first...

...received call related information does not match any call related information pre-programmed in the **telephone** number/ring count directory 16, then the TAD 11 answers the call by initiating an...

...by the user via the keypad 36.

Voice signals are transmitted to and from the **telephone** line through the RJ11 connector 32 and pass through the **telephone** line interface circuit48 to the voice recorder/playback circuit 20. The subsequent incoming voice message...recorder playback circuit 20 would then transmit the pre-recorded outgoing announcing message through the **telephone** line interface circuit 48 and to the **telephone** line 14.

A TAD in accordance with the principles of the present invention may also...

...In this mode, the user listens to a pre-recorded announcing message at a remote **telephone** . The incoming call from the user is answered by the TAD as described above. At...

...define the number of rings which must occur before the voice messaging system answers a **telephone** call. In this way, for example, when the user retrieves his or her messages remotely...

...CLAIMS to claim 10, wherein said call related information is at least a portion of a **telephone** number.

12. A device or a method according to claim 11, wherein said portion of said **telephone** number is an area code.

13. A device according to claim 7, or a method...

5/5,K/18 (Item 18 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

01034831

Caller ID equipment which displays location of caller

Telefongerat mit Identifizierung und Ortsanzeige des Anrufers

Appareil telephonique **avec affichage de l'identite et du lieu de l'appelant**

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 920169 A1 990602 (Basic)

APPLICATION (CC, No, Date): EP 98309596 981124;

PRIORITY (CC, No, Date): US 980824 971201

DESIGNATED STATES: DE

INTERNATIONAL PATENT CLASS: H04M-001/57;

ABSTRACT EP 920169 A1

Customer premises **telephone** equipment (11) and methods are provided for identifying a calling party's **telephone** number, household name, and city and/or state location, to a called party. The equipment includes one or more directories (16,22,24) containing city and state location information corresponding to a complete listing of all area codes and local exchanges throughout a selected calling region or country. A receiver (12) receives an incoming **telephone** number of an incoming **telephone** call and a comparator (18) compares the received incoming **telephone** number with the directory or directories (16,22,24) containing the city and state location information to identify a city and state location associated with the incoming **telephone** number. The equipment includes a display (20) for displaying the incoming **telephone** call

number, the household name, and/or the city and state location associated with the incoming call.
ABSTRACT WORD COUNT: 137

LEGAL STATUS (Type, Pub Date, Kind, Text):
Withdrawal: 010103 A1 Date of withdrawal of application: 20001109
Examination: 20000119 A1 Date of request for examination: 19991119
Application: 990602 A1 Published application (A1with Search Report ;A2without Search Report)
Change: 991103 A1 Inventor information changed: 19990916
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9922	546
SPEC A	(English)	9922	2233
Total word count - document A			2779
Total word count - document B			0
Total word count - documents A + B			2779

Appareil telephonique avec affichage de l'identite et du lieu de l'appelant
INVENTOR:
Cannon, Joseph M ...

...US)
Johanson, James A ...

...ABSTRACT A1
Customer premises **telephone** equipment (11) and methods are provided for identifying a calling party's **telephone** number, household name, and city and/or state location, to a called party. The equipment...

...local exchanges throughout a selected calling region or country. A receiver (12) receives an incoming **telephone** number of an incoming **telephone** call and a comparator (18) compares the received incoming **telephone** number with the directory or directories (16,22,24) containing the city and state location information to identify a city and state location associated with the incoming **telephone** number. The equipment includes a display (20) for displaying the incoming **telephone** call number, the household name, and/or the city and state location associated with the...

...SPECIFICATION of the Invention
The present invention relates to caller ID equipment which displays the incoming **telephone** number and/or household name of a calling party, together with the location associated with the incoming **telephone** number.

Description of Related Art
Many **telephone** companies offer a special service called Caller ID. Using Caller ID, a caller's **telephone** number and/or household name is transmitted by the **telephone** company to the customer. Using Type 1 caller ID service, the caller ID information is...

...4 and includes customer premises equipment 111 having a number detector 112 which displays the **telephone** number of a calling party received from the central office 113 over the **telephone** line 114. For Type 1 functionality, when the customer premises equipment 111 is on-hook, the **telephone** number of the calling party is detected by the number detector 112 during the silent interval between the first and second rings and is compared with **telephone** numbers stored in a number directory 116 by a comparator 118. For Type 2 functionality...
...microcontroller. The number directory 116 is stored in Read Only Memory (ROM). When the incoming **telephone** number from a calling party matches a **telephone** number in the number directory 116, that **telephone** number

and the calling party's household name associated with that **telephone** number are displayed on a display device 200. Alternatively, the number directory is located at...

...above, the called party is given the opportunity to see the listed household name and **telephone** number of the calling party before answering the call. Although the **telephone** number and household name is very helpful, it does not convey all of the phone number's information to the customer, particularly if the caller is calling from a **telephone** number identified as a corporate account.

Summary Of The Invention

In accordance with the principles...

...customer premises equipment is provided for identifying the household name of a calling party, the **telephone** number of the calling party, and the location of the calling party. The equipment and method includes a directory of locations corresponding to **telephone** numbers. A receiver receives an incoming **telephone** number of an incoming **telephone** call and a comparator compares the received incoming **telephone** number with the directory of locations to identify a location associated with the incoming **telephone** number. The equipment also includes a display for displaying the received incoming **telephone** number, household name, and location.

Brief Description Of The Drawings

Features and advantages of the...

...reference to the drawings, in which:

FIG. 1 is a block diagram illustrating an incoming **telephone** call information display system provided in accordance with the principles of the present invention;

FIG. 2 is a front view of a display panel of a console for the incoming **telephone** call information display system;

FIG. 3 is a block diagram of the system shown in...

...party quickly based on the area code and the three-digit exchange of the displayed **telephone** numbers alone. City and state location information is quite useful in further identifying the calling...

...The present invention is accomplished by incoming call display equipment which detects a caller's **telephone** number and compares that number with **telephone** numbers stored in a directory to identify and display the name, **telephone** number of the calling party, and the city and/or state, providence or other locality...

...to the incoming call display equipment, which would simply receive and display the caller's **telephone** number, name, and/or city and state information as transmitted by the **telephone** company. The customer premises equipment may also include other features such as a log of incoming and outgoing **telephone** calls, their duration, the time and date of those calls either local to the calling...

...party, and/or the geographic origin of those calls.

With reference to FIG. 1, a **telephone** identification display system, generally indicated at 10, includes customer premises equipment 11 having a number detector 12 which displays the **telephone** number of a calling party received from the central office 13 over the **telephone** line 14. For Type 1 functionality, when the customer premises equipment 11 is on-hook, the **telephone** number of the calling ...12 during the silent interval between the first and second rings and is compared with **telephone** numbers stored in a number directory 16 by a comparator 18. For Type 2 functionality...

...stored in Read Only Memory (ROM) at the customer premises equipment 11. When the incoming **telephone** number from a calling party matches a

telephone number in the number directory 16, that **telephone** number and the calling party's household name associated with that **telephone** number are displayed on a display device 20. The central office 13 can update the...

...Alternatively, instead of providing the number directory 16 in the customer premises equipment 11, the **telephone** number and the household name of the calling party may be stored at a centralized database of the **telephone** company central office providing the Caller ID service. The information from the number directory stored...

...caller is identified by the comparator 18, the city and state associated with the incoming **telephone** number are displayed on the display 20.
The customer premises equipment 11 may also include...

...standard handset 30 and a phone jack 32 which can be plugged into any standard **telephone** company modular jack, e.g., an RJ-11 jack. The control panel 28 includes a...

...character length and are all used in combination to display useful information about the incoming **telephone** call. For example, when the **telephone** identification display system 10 receives an incoming call, the name of the calling party as...

...as received from the central office 13 (FIG. 1) is displayed on line 38, the **telephone** number of the calling party is displayed on line 40, and the city and/or state associated with the incoming **telephone** number of the calling party as determined from the area code/location directory 22 and...

...directory 24 (FIG. 1) are displayed on line 42. If the incoming calling party's **telephone** number does not match information in any of the area code/location directory 22, the...

...may be provided in a separate, stand alone caller ID box coupled to the same **telephone** line as the customer premises equipment 11.
FIG. 3 shows a detailed circuit diagram of...

...of incoming call display equipment in accordance with the principles of the present invention. The **telephone** identification display system 10 includes a control circuit 44, memory 46 and a **telephone** interface circuit 48. Control circuit 44 includes a processor 50, e.g., a microprocessor, a...

...for general use and to store log data for logging module 25 (FIG. 1).
The **telephone** interface circuit 48 includes circuitry which permits the **telephone** identification display system 10 to be connected directly to a standard **telephone** module jack 56, i.e., an RJ-11 jack. The **telephone** interface circuit 48 also includes various control and monitoring circuits that are common to ordinary **telephones** . These circuits are conventional and may include an electronic **telephone** circuit (not shown) for controlling dialing functions and for interfacing a **telephone** handset and a ring detect interface circuit 58 for detecting incoming calls. In the illustrated embodiment, the **telephone** interface circuit 48 also includes a filter and demodulating circuit 60 that is used for...

...data stream. Data received by the demodulating circuit includes at least data representing the incoming **telephone** number received during the silent interval between the first and second ring. Data of household...

...function.
A real time clock circuit 65 is also provided to provide timing for the **telephone** identification display system. The real time clock circuit 65 provides the system with the current...

...of the invention improves upon the traditional caller ID systems by providing not only the **telephone** number and household name of the calling party, but also useful additional information such as the city and/or state location or other locality associated with the **telephone** number of the calling party.

While the invention has been described in accordance with what...

CLAIMS 1. A method of identifying a calling party to a called party, comprising:

receiving a **telephone** number of an incoming **telephone** call;

comparing said **telephone** number of said incoming call with a location directory to identify a location associated with said **telephone** number of said incoming call; and

providing said location associated with said **telephone** number of said incoming call.

2. The method according to claim 1, further comprising:

receiving a household name associated with said **telephone** number of said incoming call; and

providing said household name.

3. The method according to claim 1, wherein:

said **telephone** number of said incoming call is received from a central office.

4. The method according...

...The method according to claim 1, further comprising:

a directory of household names associated with **telephone** numbers; said **telephone** number of said incoming call being compared with said directory of household names to identify a name associated with said received **telephone** number of said incoming call; and

displaying said name.

6. The method according to claim 4, further comprising:

displaying said **telephone** number of said incoming call and said location associated with said **telephone** number of said incoming call on said customer premises equipment.

7. A method of identifying...

...a called party, comprising:

providing customer premises equipment having a directory of locations corresponding to **telephone** numbers;

receiving, at said customer premises equipment, a **telephone** number of an incoming **telephone** call;

comparing said **telephone** number of said incoming call with said directory of locations to identify a location associated with said **telephone** number of said incoming call; and

displaying said **telephone** number of said incoming call; and

displaying said location associated with said **telephone** number of said incoming call.

8. The method according to claim 7, further comprising:

receiving, at said customer premises equipment, a household name associated with said **telephone** number of said incoming call; and

displaying said household name.

9. Customer premises equipment for...

...party to a called party, comprising:

a directory of locations corresponding to area codes of **telephone** numbers;

receiving means for receiving an incoming **telephone** number of an incoming **telephone** call;

comparing means for comparing said received incoming **telephone** number with said directory of locations to identify a location associated with said received incoming **telephone** number; and

a display to display said received incoming **telephone** number and said

location associated with said received incoming **telephone** number.

10. The customer premises equipment according to claim 9, wherein:
said receiving means is constructed and arranged to receive a household name associated with said incoming **telephone** number of said incoming call; and
said display is constructed and arranged to display said...

...identifying a calling party to a called party, comprising:
a directory of locations corresponding to **telephone** numbers;
a receiver to receive an incoming **telephone** number of an incoming **telephone** call;
a comparator to compare said received incoming **telephone** number with said directory of locations to identify a location associated with said received incoming **telephone** number; and
a display to display said received incoming **telephone** number and said location associated with said received incoming **telephone** number.

12. The customer premises equipment according to claim 11, wherein:
said receiver is further to receive a household name associated with said **telephone** number of said incoming call; and
said display is constructed and arranged to display said...

5/5,K/19 (Item 19 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01025126
Call forwarding via a 2-line phone
Anrufweiterleitung uber ein zweidrahtiges Telefon
Renvoi d'appel par un appareil telephonique **a deux lignes**
PATENT ASSIGNEE:
LUCENT TECHNOLOGIES INC., (2143720), 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, (US), (applicant designated states: AT;BE;CH;CY;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)
INVENTOR:
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LEGAL REPRESENTATIVE:
Buckley, Christopher Simon Thirsk et al (28912), Lucent Technologies (UK) Ltd, 5 Mornington Road, Woodford Green, Essex IG8 0TU, (GB)
PATENT (CC, No, Kind, Date): EP 915608 A2 990512 (Basic)
APPLICATION (CC, No, Date): EP 98308974 981103;
PRIORITY (CC, No, Date): US 64417 P 971106; US 81751 980520
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
INTERNATIONAL PATENT CLASS: H04M-003/54;

ABSTRACT EP 915608 A2
According to one aspect of the invention, two lines (107, 109) are utilized to selectively forward calls based on caller ID data. Thus, according to one embodiment of the invention, a method of connecting a calling party to a called party includes the steps of a customer premise equipment (CPE) (105) receiving an incoming call from the calling party on a first line (107), the CPE (105) evaluating caller ID data associated with the incoming call, and the CPE (105) placing an outgoing call to the called party on a second line (109) based on the caller ID data. In another embodiment, a CPE (105) includes a first line (107), a second line (109), and a calling unit (113) adapted to place an outgoing call on the second line (109) based on caller ID data associated with an incoming call received on the first line (107). In yet another embodiment, a

method of forwarding a call includes the steps of receiving the call on a first line (107), selectively calling a forwarding number on a second line (109) based on caller ID data associated with the received call, and coupling the first line to the second line (115).
ABSTRACT WORD COUNT: 199

LEGAL STATUS (Type, Pub Date, Kind, Text):
Withdrawal: 011128 A2 Date application deemed withdrawn: 20010531
Application: 990512 A2 Published application (Alwith Search Report ;A2without Search Report)
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9922	609
SPEC A	(English)	9922	3598
Total word count - document A			4207
Total word count - document B			0
Total word count - documents A + B			4207

Renvoi d'appel par un appareil telephonique **a deux lignes**
INVENTOR:
Cannon, Joseph M ...

...US)
Johanson, James A ...

...SPECIFICATION line phone.

Background of the Invention:
Call forwarding is an optional service provided by some **telephone** service providers which, for a fee, enables a **telephone** subscriber to arrange for incoming calls to be forwarded to a forwarding number. In a typical scenario, the **telephone** subscriber will enable the call forwarding service through a keypad on the **telephone** subscriber's **telephone** (also known as "customer premise equipment" (CPE)). This enablement will cause the **telephone** service provider to readdress calls originally destined for the **telephone** subscriber's **telephone** to instead be addressed to a **telephone** specified by the **telephone** subscriber. For example, if a user of this service is about to leave the user...

...the service by pressing a predetermined code on a keypad of the user's home **telephone** . In response to the signal created by this keypad activation, the **telephone** service provider may prompt the user to enter a forwarding number. Subsequently, the **telephone** service provider, through a central switch network (also known as "central office"), will cause **telephone** calls to the user's home **telephone** number to instead be connected to the user's work **telephone** number.
Many years ago, a "toll fraud" practice was employed. According to this practice, **telephone** calls were forwarded through an intermediary location in order to avoid charges for a long distance **telephone** call by instead having two local **telephone** calls. Similarly, calls were sometimes forwarded through an intermediate location to make it more difficult...

...For example, conventional call forwarding can only be initiated or terminated from the user's **telephone** . Thus, for example, if the user forgets to "set" call forwarding before leaving home, the...

...exemplary method of operation for the customer premise equipment shown in Figure 1.

Detailed Description:
Telephones with multiple lines, such as 2-line phones, are becoming more common. Whereas multiple line...

...provided to a typical home and the number of lines available for use by a **telephone** will likely continue to increase. The present invention is an improvement to a conventional 2...

...2-line phone supports call forwarding functionality. By providing the call forwarding functionality in the **telephone** , the invention allows for increased user-controlled flexibility. Further, since the functionality is transparent to...

...1 is a simplified block diagram of a 2-line phone according to the invention. **Telephone** 105 is coupled to a first line 107 and to a second line 109. Although...

...the same physical line. First line 107 and second line 109 are coupled to conventional **telephone** call handling elements 111 for placing and receiving **telephone** calls in a conventional manner. In addition, first line 107 and second line 109 are...processor (DSP). Such a DSP may also include a portion or all of the conventional **telephone** call handling elements 111. Thus, in one embodiment according to the invention, a DSP configured to support conventional **telephone** call handling functions is further configured to provide for call forwarding according to the invention. The configuration of evaluating and calling unit 113 and coupling unit 115 with the conventional **telephone** call handling elements 111 into a single processor is purely by way of example and not of limitation. Other configurations are also possible. For example, the conventional **telephone** call handling elements 111 can be incorporated into one processor, such as a single chip...

...113 and coupling unit 115 can be incorporated into another processor. Further, although the conventional **telephone** call handling elements 111 are shown incorporated into **telephone** 105, it is understood that some of these elements, such as **telephone** answering machine elements, may be physically incorporated into a separate package coupled to **telephone** 105.

According to another embodiment, the evaluating and calling unit 113 is coupled to or...

...second line 109.

Input unit 119 may take the form of a computer connected to **telephone** 105 through an input/output port, or through some other connection, such as an optical...

...however, input unit 119 may take the form of a keypad that is incorporated into **telephone** 105 and that can be configured to be in a programming mode. For example, a...

...For example, a user can program evaluating and calling unit 113 to only forward certain **telephone** calls based on an analysis of call related information, such as caller ID data, associated...

...the forwarding criteria, according to this example, are handled in a conventional manner by conventional **telephone** call handling elements 111. Thus, for example, a user can program evaluating and calling unit 113 to forward calls received from a particular **telephone** number, and to have all other calls handled by exemplary answering machine elements of the conventional **telephone** call handling elements 111.

The programming available via input unit 119 and programming and enabling...

...of evaluating and calling unit 113 while at a location separate from the location of **telephone** 105. For example, a user can call **telephone** 105 from a different location and program evaluating and calling unit 113 by activating predetermined...

...and enabling unit 117 according to a predetermined script.

Thus, for example, a user calling **telephone** 105 at the **telephone** number corresponding to second line 109 can alert the programming and enabling unit 117 to pressing a predetermined key sequence on the user's distant **telephone** to cause a predetermined dual tone multifrequency (DTMF) signaling sequence to be received by programming...

...user may respond to the query by activating appropriate keys on the user's distant **telephone** to provide corresponding DTMF signals to programming and enabling unit 117 in order to program the evaluating and calling unit 113.

Presume, for example, that **telephone** 105 is the user's home **telephone** , and the user initially programmed **telephone** 105 so that all calls received on first line 107 (the user's home **telephone** number) will be forwarded to the user's work **telephone** number. If the user is at the user's work location and departs the user...

...instead forward calls to the satellite office.

According to one embodiment, the user can configure **telephone** 105 so that first line 107 corresponds to the user's published **telephone** number and is therefore the "public" line, whereas second line 109 is primarily for (i...

...phone line. In this scenario, the incoming call will then be handled by the conventional **telephone** call handling elements 111.

In a related alternative embodiment, if the forwarding number is busy ...

...forwarding numbers being busy.

Figure 2 provides a flowchart showing an example of operation of **telephone** 105 according to an exemplary scenario. At step 202 a user programs evaluating and calling...

...by activating input unit 119 by, for example, pressing specific keys on a keypad of **telephone** 105. An example of this programming is for the user to set evaluating and calling unit 113 to forward incoming calls to the user's work **telephone** number. The work **telephone** number can be set by entering the work **telephone** number into the keypad, or preferably can be set by selecting the work **telephone** number from a set of preprogrammed **telephone** numbers. This step of programming may be facilitated by a prompting script run by thefor example, visually via a display on **telephone** 105, or audibly through a speaker on **telephone** 105.

At step 204, an incoming call to the **telephone** number corresponding to first line 107 is received by evaluating and calling unit 113. At...

...the caller ID data received with the incoming call to a table of previously programmed **telephone** numbers or incoming caller identities for which call forwarding is either enabled or disabled.

If...

...should not be forwarded, then at step 208 the incoming call is handled by conventional **telephone** call handling elements 111 in a conventional manner. For example, an answering machine unit incorporated into or coupled to **telephone** 105 can process the incoming call by prompting the incoming caller to leave a message for the called party. Conventional **telephone** answering devices typically process an incoming call after a predetermined number of rings, such as...

...determination that the call should not be forwarded, the answering machine unit of the conventional **telephone** call handling elements 111 begins to process the incoming call after the fourth ring at...

...forwarding number. According to this exemplary scenario, step 210 includes determining the user's work **telephone** number set by the user at step 202. In a more detailed example, step 210...

...of the fact that the incoming call was originally destined for the

user's home **telephone** by noting that call related information such as caller ID data associated with the incoming call corresponds to second line 109 of the user's home **telephone** .
At step 218, coupling unit 115 monitors the call status on first line 107 and...
...the user's work location, the user can remotely control the call forwarding feature of **telephone** 105 by calling the **telephone** number corresponding to second line 109 to engage programming and enabling unit 117. For example...

...call being handled conventionally, such as being handled by an answering machine unit in conventional **telephone** call handling elements 111. If, on the other hand, the user intends to leave the...

...decision at step 206 to forward the call, a determination at step 210 of the **telephone** number of the satellite office, an initiation of a call at step 212 to the...

5/5,K/20 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00905154 **Image available**
SYSTEM AND METHOD FOR UPDATING STORED INFORMATION IN ELECTRONIC DEVICES
SYSTEME ET PROCEDE DE MISE A JOUR D'INFORMATION MEMORISEE DANS DES DISPOSITIFS ELECTRONIQUES
Patent Applicant/Assignee:
AGERE SYSTEMS INC, P.O. Box 614, Berkeley Heights, NJ 07922-0614, US, US (Residence), US (Nationality)
Inventor(s):
CANNON Joseph M , 913 Harcourt Lane, Harleysville, PA 19438, US,
JOHANSON James A , 6336 Larch Circle, Macungie, PA 18062, US
Legal Representative:
D'AMICO Thomas J (agent), Dickstein Shapiro Morin & Oshinsky LLP, 2101 L Street NW, Washington, DC 20037-1526, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200239210 A2-A3 20020516 (WO 0239210)
Application: WO 2001US42873 20011031 (PCT/WO US0142873)
Priority Application: US 2000705694 20001106
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04Q-007/20
Publication Language: English
Filing Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 5319

English Abstract
A method and system for updating information stored in portable electronic devices (40) based on the geographic location of the electronic devices is disclosed. The portable electronic devices are provided with built-in transceiver modules that will automatically communicate with base stations (12b) provided at centralized high traffic locations. The base stations transmit low power radio signals to the portable devices that contain commands for the devices to automatically update information stored in the portable devices based on the geographic

area, such as for example updating to a new **telephone** area code or time zone. Additionally, a global positioning satellite (GPS) system (50a-d) can be utilized to automatically set the transceiver modules in the portable electronic devices to the proper frequency at which the base stations are transmitting thereby ensuring a communication link between the base station and the portable electronic device. Alternatively, a GPS system can be utilized to update information stored in the portable electronic devices based on the geographic location of the electronic devices.

French Abstract

La presente invention concerne un procede et un systeme de mise a jour de l'information memorisee dans des appareils electroniques portables en fonction de leur situation geographique. Ces appareils electroniques portables sont pourvus de modules emetteurs-recepteurs integres qui entrent automatiquement en communication avec des stations de base installees en des points de fort trafic centralise. Ces stations de base emettent a destination des appareils portables des signaux radio faible puissance comportant des commandes leur demandant de mettre a jour automatiquement l'information en memoire en fonction de la situation geographique. Cette mise a jour permettra alors notamment a repercuter un changement de numero de zone **telephonique** ou de zone horaire. En outre, on peut se servir d'un systeme GPS de positionnement par satellite pour faire passer les modules d'emetteurs-recepteurs des appareils electroniques portables sur les frequences propres qu'utilisent pour l'emission les stations de base, de facon a garantir la permanence de la liaison avec la station de base. Selon un autre mode de realisation, le systeme GPS peut servir a mettre a jour l'information memorisee par l'appareil electronique portable en fonction de la situation geographique des appareils electroniques.

Legal Status (Type, Date, Text)

Publication	20020516	A2 Without international search report and to be republished upon receipt of that report.
Search Rpt	20021121	Late publication of international search report
Republication	20021121	A3 With international search report.
Examination	20030116	Request for preliminary examination prior to end of 19th month from priority date

Inventor(s):

CANNON Joseph M ...

... **JOHANSON James A**

Fulltext Availability:

Detailed Description

Claims

English Abstract

...portable devices based on the geographic area, such as for example updating to a new **telephone** area code or time zone. Additionally, a global positioning satellite (GPS) system (50a-d) can...

French Abstract

...Cette mise a jour permettra alors notamment a repercuter un changement de numero de zone **telephonique** ou de zone horaire. En outre, on peut se servir d'un systeme GPS de...

Detailed Description

... of the electronic devices allow a user to program certain information, such as frequently dialed **telephone** numbers, important meeting reminders, etc. into the memory for later rapid dialing or notification, t1...

...exacerbated if the user often travels outside of his local geographic region., For example, the **telephone** numbers stored in the speed dial

function typically assume the call will be made within...

...portable devices based on the geographic area, such as for example updating to a new **telephone** area code or time zone. Accordingly, the portable electronic devices will work seamlessly in the...illustrated in Fig. 1, a portable electronic device 20, such as for example a wireless **telephone** , PDA, laptop computer, wristwatch or the like, is provided with a transceiver 22 connected to...

...example, the device 20 may have a speed dial function which allows for storage of **telephone** numbers in memory 30, or may be provided with a scheduling assistant for storing the...
...base stations 12 may be provided in different locations served by different area codes for **telephone** numbers.

In accordance with the present invention, if device 20 crosses time line 18 to...

...example, suppose all information stored in memory 30 of device 20, such -as for example **telephone** numbers, appointments., etc.) is stored based on tlie device being located in a home location...

...a date line is crossed, the system date would also be updated.

With respect to **telephone** numbers stored in memory 30 of device 20, when
transceiver 22 sends a signal to...

...speed dial numbers in which die area code is also provided. For example, suppose all **telephone** numbers stored in memory 30 are stored with die assumption that the calls will always...

...with the seven digit numbers stored in the memory 30. The area code for the **telephone** numbers stored in memory 30 can also be stored in a look-up table in...

...served by a dfferent area code.

7
It should be understood that updating of the **telephone** numbers stored in
memory 30 is performed independently of updating the system clock and calendar...

...TM is a radio frequency standard that describes how portable electronic devices, such as wireless **telephones** , PDAs) and personal computers, can easily interconnect with each other and with home and business...

Claim
... 1, wherein said information stored in said memory of said portable electronic device includes a **telephone** number for a speed dial fimction.

4 The system of claim 1, wherein said information...

...The system of claim 1, wherein said information included in said radio signal includes a **telephone** area code associated with said respective geographic location.

8 The system of claim 1, wherein...

...system according to claim 1, wherein said information included in said radio signal includes a **telephone** country code associated with said respective geographic location.

10 The system according to claim 1...

...The device according to claim 15, wherein said information stored in said memory includes a **telephone** number for a speed dial ffinction.
20 The device according to claim 15, wherein said...

...device according to claim 15, wherein said information included in said radio signal includes a **telephone** area code associated with said geographic location.

24 The device according to claim 15, wherein...

...device according to claim 15, wherein said information included in said radio signal includes a **telephone** country code associated with said geographic location.

26 The device according to claim 15, wherein...The device according to claim 31, wherein said information stored in said memory includes a **telephone** number for a speed dial function.

33 The device according to claim 31, wherein said...

...35, wherein said information stored in said memory of said portable electronic device includes a **telephone** number for a speed dial function.
38 The method of claim 351) wherein said information...

...The method of claim 35, wherein said information included in said radio signal includes a **telephone** area code associated with said respective geographic location.

42 The method of claim 351) wherein...

...method according to claim 35, wherein said information included in said radio signal includes a **telephone** country code associated with said respective geographic location.

44 ' The method according to claim 35...

...461) wherein said information stored in said memory of said portable electronic device includes a **telephone** number for a speed dial function.

48 The method of claim 46, wherein said information...

...of claim 46, wherein said information included in said radio 1 5 signal includes a **telephone** area code associated with said geographic location.

52 The method of claim 461, wherein said...

...method according to claim 46, wherein said information included in said radio signal includes a **telephone** country code associated with said respective geographic location.

54 The method according to claim 46...

March 26, 2003

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File 344:Chinese Patents Abs Aug 1985-2003/Jan
         (c) 2003 European Patent Office
File 347:JAPIO Oct 1976-2002/Nov(Updated 030306)
         (c) 2003 JPO & JAPIO
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200319
         (c) 2003  THOMSON DERWENT

Set     Items   Description
S1    3127353   SIGNAL? OR FREQUENC? OR WAVE? OR PULS?
S2       3520   FSK OR FREQUENC?()SHIFT()KEYING OR LINE()REVERSAL
S3    1947442   TELEPHON? OR TELECOM? OR COMMUNICAT? OR (SPEECH? OR VOICE?-
             )()(MESSAG? OR TRANSMIS? OR TRANSMIT?) OR PHONE? OR FONE? OR -
             TELEGRAPH? OR TELEMETRY? OR TELEMETER? OR ANALOG? OR DIGITAL?
S4    1947951   ANSWER? OR RESPON? OR REPLY? OR ACKNOWLEDG? OR RETURN? OR -
             REACT?
S5    1002722   BEFORE OR PREVIOUS? OR PRIOR
S6     868360   RING? OR TONE? OR BUZZ? OR CHIME?
S7       9094   (PHONED OR CALLED)()(PARTY OR PARTIES OR PERSON? OR MAN OR
             MEN OR WOM?N) OR CALL??()RECEIV?
S8        653   S1(3N)S7
S9      27282   S3(3N)S4
S10      4411   S5(3N)S6
S11         1   S8 AND S9 AND S10
S12        55   S9 AND S10
S13        42   S12 AND S1
S14        20   S12(10N)S1
S15        19   S14 NOT S11
S16         9   S9(10N)S10
S17         1   S12 AND S2
S18         1   S17 NOT (S15 OR S11)
S19         1   S2 AND S3 AND S5 AND S6 AND S7
S20         1   S19 NOT (S18 OR S15 OR S11)
S21     13733   S1 AND S9 AND S3
S22       391   S21 AND S7
S23         0   S22 AND S2
S24      7273   S1(5N)S9(5N)S3
S25       136   S24 AND S7
S26        36   S24(5N)S7
S27        36   S26 AND S4
S28       330   S1 AND S10 AND S3
S29        50   S1(5N)S10(5N)S3
S30         3   S29 AND S7
S31         0   S30 NOT (S20 OR S18 OR S15)
```

11/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

012100583 **Image available**
WPI Acc No: 1998-517494/199844
XRPX Acc No: N98-404830

Facsimile machine with several communication procedures prescribed by ITU-T - selects communication **procedure based on** response **signal for tone signal when tone** signal **is transmitted to** called - party **facsimile machine by CNG generator circuit**

Patent Assignee: OKI DATA SYSTEMS KK (OKID)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 10229483	A	19980825	JP 9744809	A	19970212	199844	B

Priority Applications (No Type Date): JP 9744809 A 19970212
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 10229483	A		13	H04N-001/32	

Abstract (Basic): JP 10229483 A

The apparatus has a CNG assay circuit (30) installed at the called party facsimile machine. The CNG assay circuit analyses the **response** signal based on **communication** procedure e.g. standard, non-standard mode, prescribed by ITU-T. A CNG generator circuit (20) at the calling side facsimile machine transmits several tone signals of different signal levels at predetermined time. When a tone signal is transmitted to the called party facsimile machine by the CNG generator circuit, a communication procedure is chosen based on the response signal for the tone signal.

Preferably, a selector outputs the response signal based on the comparison result of the **tone** signal level **before** and after transmission, by signal level comparator.

ADVANTAGE - Shortens communication procedure since it can be confirmed before moving from non-standard mode to standard mode. Performs exact evaluation of communication procedure since influence of variation of signal level in different communication channels is reduced. Reduces installation expense of communication circuit since it is shared by several controllers. Ensures effective use of communication circuit.

Dwg.10/12

Title Terms: FACSIMILE; MACHINE; COMMUNICATE; PROCEDURE; PRESCRIBED; SELECT ; COMMUNICATE; PROCEDURE; BASED; RESPOND; SIGNAL; TONE; SIGNAL; TONE; SIGNAL; TRANSMIT; CALL; PARTY; FACSIMILE; MACHINE; GENERATOR; CIRCUIT
Index Terms/Additional Words: INTERNATIONAL; TELECOMMUNICATION; UNION-TELECOMMUNICATION; STANDARDISATION; SECTOR
Derwent Class: W01; W02
International Patent Class (Main): H04N-001/32
International Patent Class (Additional): H04M-011/00
File Segment: EPI

15/5/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

05572268 **Image available**
RADIO RELAY SYSTEM, SLAVE SET AND RADIO REPEATER

PUB. NO.: 09-187068 [JP 9187068 A]
PUBLISHED: July 15, 1997 (19970715)
INVENTOR(s): TANAKA YOSHIYUKI
SARAYA NOBUKI
APPLICANT(s): ICOM INC [472002] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 07-342920 [JP 95342920]
FILED: December 28, 1995 (19951228)
INTL CLASS: [6] H04Q-007/38
JAPIO CLASS: 44.2 (COMMUNICATION -- Transmission Systems)

ABSTRACT
PROBLEM TO BE SOLVED: To attain communication by each group without needing troublesome operations and complicated configuration of a repeater and a slave set in the radio relay system in which plural groups uses one repeater.

SOLUTION: A slave set sends a digital **signal** in response to a digital **signal** for each transmission **before** the **tone signal** and a speech **signal** , and a tone **signal** of a relay control section 9 in the repeater R is set automatically based on a digital signal extracted from a reception signal by a digital signal extract section 11. Thus, one repeater is used by plural groups by setting different tone and digital signals for the plural groups.

15/5/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO

05308279 **Image available**
REMOTE MANAGEMENT SYSTEM

PUB. NO.: 08-263779 [JP 8263779 A]
PUBLISHED: October 11, 1996 (19961011)
INVENTOR(s): YOSHIMURA KATSUMI
TAKAGI TATSUMI
APPLICANT(s): TAMURA ELECTRIC WORKS LTD [350937] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 07-062533 [JP 9562533]
FILED: March 22, 1995 (19950322)
INTL CLASS: [6] G08B-025/08; H04M-011/00; H04M-017/00
JAPIO CLASS: 44.9 (COMMUNICATION -- Other); 44.4 (COMMUNICATION -- Telephone)

ABSTRACT
PURPOSE: To allow a public telephone set to accurately respond to an incoming call from a center equipment to execute communication and accurately respond also to a general incoming call from an equipment other than the center equipment to execute talking.
CONSTITUTION: When an incoming call arriving at an incoming circuit 11 through a line L does not arrive due to a caller's call cancel, the caller is recognized as a center and transmission is automatically executed. When the number of tones from the arrival of an incoming signal at the circuit 11 up to the stop of the arrival due to caller's call cancel is counted, the counted value is **previously** determined three **tones** and the number of tones of a rearriving incoming **signal** reaches two tones, the signal is recognized as an incoming signal from the center and the circuit 11

automatically responds to the call. Consequently a public telephone set can accurately respond to an incoming call from the center and execute communication. In addition, the set can accurately respond also to a general incoming call from an equipment other than the center to execute talking.

15/5/3 (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO

04870035 **Image available**
FACSIMILE EQUIPMENT

PUB. NO.: 07-162635 [JP 7162635 A]
PUBLISHED: June 23, 1995 (19950623)
INVENTOR(s): MIURA TAKAHITO
APPLICANT(s): RICOH CO LTD [000674] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 05-304506 [JP 93304506]
FILED: December 06, 1993 (19931206)
INTL CLASS: [6] H04N-001/32
JAPIO CLASS: 44.7 (COMMUNICATION -- Facsimile)

ABSTRACT

PURPOSE: To accurately perform the automatic switching between a telephone set and a facsimile equipment by detecting a CNG signal and also another signal different from the CNG signal in frequency in order to decide whether the transmitter is a telephone set or a facsimile equipment.

CONSTITUTION: When an external automatic answering telephone set 13 is set in an off-hook state **before** the **ringing signals** are produced in the prescribed **frequency** , a tone detecting part 3 detects the level of a CNG signal of 1100Hz and also the level of a tone signal of the difference frequency from the CNG signal. When the CNG signal is detected and the tone signal is not detected, a relay 12 is switched toward a transformer 19 and the facsimile reception is started. When a tone signal is detected at the part 3 in addition to the CNG signal, a component of 1100Hz included in the human voices is decided and the CNG signal level is detected again as long as the detected tone signal has a level higher than the prescribed one.

15/5/4 (Item 4 from file: 347)
DIALOG(R)File 347:JAPIO

03198949 **Image available**
AUTOMATIC ANSWERING TELEPHONE SYSTEM

PUB. NO.: 02-174449 [JP 2174449 A]
PUBLISHED: July 05, 1990 (19900705)
INVENTOR(s): NANJO RYUICHI
APPLICANT(s): SHARP CORP [000504] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 63-331471 [JP 88331471]
FILED: December 27, 1988 (19881227)
INTL CLASS: [5] H04M-001/65
JAPIO CLASS: 44.4 (COMMUNICATION -- Telephone)
JOURNAL: Section: E, Section No. 982, Vol. 14, No. 444, Pg. 54, September 21, 1990 (19900921)

ABSTRACT

PURPOSE: To record a message to the point by not starting the recording of a message **before** a specific **signal tone** is not detected from a caller after a reply message is sent.

CONSTITUTION: A reply message control means 10a sends a reply message to a telephone line via a speech network circuit 6 and a network control circuit 5 and the mode is reached in a message recording standby mode. When a specific signal tone from a caller is inputted to a specific signal tone detection circuit 8 via the network control circuit 5 and the network circuit 6, the detection circuit 8 sends a detection signal to a specific signal tone detection means 10c. The detection means 10c sends a signal representing the input of a specific signal to a switch control means 10g and the switch control means 10g sends a recording enable signal from a message recording control means 10b to a message recording circuit 9. The recording circuit 9 based on the input of the recording enable signal starts the recording of the message sent from the caller

15/5/5 (Item 5 from file: 347)
DIALOG(R)File 347:JAPIO

02625153 **Image available**
METHOD FOR DETECTING CONTROL **SIGNAL** FOR AUTOMATIC **ANSWERING** **TELEPHONE** SYSTEM

PUB. NO.: 63-242053 [JP 63242053 A]
PUBLISHED: October 07, 1988 (19881007)
INVENTOR(s): HIGUCHI SHIGEMITSU
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 62-074034 [JP 8774034]
FILED: March 30, 1987 (19870330)
INTL CLASS: [4] H04M-001/65
JAPIO CLASS: 44.4 (COMMUNICATION -- Telephone)
JOURNAL: Section: E, Section No. 712, Vol. 13, No. 51, Pg. 14, February 06, 1989 (19890206)

ABSTRACT

PURPOSE: To ensure the ,input of a special number just after an incoming call by detecting a call tone and connecting a line then starting PB tone detection before a reply message is outputted.
CONSTITUTION: A means generating a prescribed time of interblock before the output of a reply message just after the arrival of call, a means 6 detecting the input of a pushbutton (PB) tone in the interblock, a means 7 extracting information according to a prescribed algorithm from the inputted PB tone, a means 11 comparing and verifying the extracted information with a registered information in advance and a means inhibiting the output of a reply message during the input of a PB tone are provided. Thus, the silent time is formed just after a line is connected to an automatic answering telephone, the detection of the PB tone is facilitated and when the PB tone is inputted in accordance with a prescribed algorithm, the output of the reply message inbetween is inhibited and inputted surely and no malfunction takes place.

15/5/6 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

014785420 **Image available**
WPI Acc No: 2002-606126/200265
Telephone device having selective receiving function and receiving control method using the same
Patent Assignee: YANG D B (YANG-I)
Inventor: YANG D B
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
KR 2002022329	A	20020327	KR 200055056	A	20000919	200265	B

Priority Applications (No Type Date): KR 200055056 A 20000919
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
KR 2002022329	A		1	H04M-003/54	

Abstract (Basic): KR 2002022329 A

NOVELTY - A telephone device having a selective receiving function is provided to drive an ARS by **previously** detecting a receiving **ring signal** when a call is made from the outside, and to detect a signal of a number pressed by a caller to wirelessly transmit the signal to a selected telephone, so as to minimize an invasion of a person's privacy.

DETAILED DESCRIPTION - If a call is made from the outside, a ring detector(30) detects a ring signal of an office line(2). If the ring signal is received, an ARS block(20) performs a voice announcement. A DTMF(Dual Tone Multi Frequency) detector(40) detects a dual tone signal applied through the office line(2). A controller(90) receives a detection response of the DTMF detector(40) to analyze a called number, and generates an incoming **signal** delivering enable **signal** , to make an extension **telephone** only **respond** to the number. A wireless incoming **signal** delivery block(80) responds to the incoming signal delivering enable signal and delivers a wireless incoming signal. A receiving telephone selector(70) selects one of extension telephones under the control of the controller(90). A representative **telephone**, selector(60) **responds** to a time over **signal** of a timer(50), and selects a representative telephone(10). A tone generator(5) generates an incoming sound to the representative telephone(10).

pp; 1 DwgNo 1/10

Title Terms: TELEPHONE; DEVICE; SELECT; RECEIVE; FUNCTION; RECEIVE; CONTROL ; METHOD
Derwent Class: W01
International Patent Class (Main): H04M-003/54
File Segment: EPI

15/5/7 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013421415 **Image available**
WPI Acc No: 2000-593354/200056
XRPX Acc No: N00-439372

Operating method of computer telephony network, involves generating sequence of tones followed by CAS tone to switch telephone from voice to data modes

Patent Assignee: NORTEL NETWORKS CORP (NELE)
Inventor: CARDILLO R A; KNIGHT S D
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 6101252	A	20000808	US 97829082	A	19970331	200056	B

Priority Applications (No Type Date): US 97829082 A 19970331
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6101252	A		9	H04M-011/00	

Abstract (Basic): US 6101252 A

NOVELTY - A customer equipment altering signal (CAS) tone is produced based on a call from a telephone (110) to switch the telephone to digital information receiving mode. The **telephone responds** to the CAS tone and generates dual tone multifrequency (DTMFA) **signal** .

The CAS tone is generated by producing a sequence of tones of different frequencies for switching from voice to data or from data to voice.

DETAILED DESCRIPTION - A sequence of tones at frequencies lower than the CAS tone is produced. The **frequency** of each **tone** in the sequence **prior** to the CAS **tone** is greater than the **prior** **tone** in the sequence. The **frequency** of each tone in the sequence differs from a **prior** or subsequent **tone** . The sequence of tone is output within a set time frame and includes single **frequency** tone or multifrequency tones. The **telephone** is operated in **response** to the CAS tone.

USE - For managing voice and data for communication in analog telephone network connected to computer network.

ADVANTAGE - Reduces disturbance to the user by generating sequence of tones relevant to the call signal.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of telephone computer system.

Telephone (110)

pp; 9 DwgNo 1/4

Title Terms: OPERATE; METHOD; COMPUTER; TELEPHONE; NETWORK; GENERATE; SEQUENCE; TONE; FOLLOW; CAS; TONE; SWITCH; TELEPHONE; VOICE; DATA; MODE

Derwent Class: W01

International Patent Class (Main): H04M-011/00

File Segment: EPI

15/5/8 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

011077115 **Image available**

WPI Acc No: 1997-055039/199706

XRPX Acc No: N97-045125

Telephone answering machine with playback and message recording facility - notices presence of incoming call, requests caller name, digitises response signal and compares it to stored name list before ringing telephone or recording message for recognised caller

Patent Assignee: AT & T IPM CORP (AMTT); LUCENT TECHNOLOGIES INC (LUCE)

Inventor: ARGADE P V

Number of Countries: 013 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 751658	A2	19970102	EP 96304516	A	19960618	199706	B
JP 9018574	A	19970117	JP 96125350	A	19960521	199713	
CA 2172748	A	19961230	CA 2172748	A	19960327	199718	
US 5651055	A	19970722	US 95496372	A	19950629	199735	
KR 97004556	A	19970129	KR 9624826	A	19960628	199808	
SG 52812	A1	19980928	SG 9610156	A	19960626	199904	
TW 346724	A	19981201	TW 96103604	A	19960326	199919	
CA 2172748	C	19990727	CA 2172748	A	19960327	199949	
CN 1140371	A	19970115	CN 96102329	A	19960619	200044	
KR 205155	B1	19990701	KR 9624826	A	19960628	200063	

Priority Applications (No Type Date): US 95496372 A 19950629

Cited Patents: No-SR.Pub

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 751658	A2	E	8	H04M-001/65	
Designated States (Regional): DE ES FR GB IT NL					
JP 9018574	A		8	H04M-001/64	
CA 2172748	A			H04M-001/65	
US 5651055	A		7	H04M-001/65	
KR 97004556	A			H04M-001/64	
SG 52812	A1			G06M-000/00	
TW 346724	A			H04M-001/57	
CA 2172748	C	E		H04M-001/65	

CN 1140371 A H04M-001/57
KR 205155 B1 H04M-001/64

Abstract (Basic): EP 751658 A

The telephone answering machine has a call identifier (101) which determines the presence of an incoming call. A speech generator (105) requests the caller's name. A speech recogniser (106) converts the caller's name to a digital signal and compares it to a stored list of names using a comparator (108).

An indicator indicates to the called party that a given caller's name is on the stored list of names, and a recorder records a message from the calling party. A speech generator plays a special message to the caller when it is indicated that the caller is on the stored list. A standard message is played when the caller is not on the list.

ADVANTAGE - Uses speech recognition to determine whether caller is on predefined stored list of callers to be accepted. Receives voice data for storage by several alternative methods, e.g. spoken, graphical etc.

Dwg.1/2

Title Terms: TELEPHONE; ANSWER; MACHINE; PLAYBACK; MESSAGE; RECORD; FACILITY; NOTICE; PRESENCE; INCOMING; CALL; REQUEST; CALL; NAME; DIGITAL; RESPOND; SIGNAL; COMPARE; STORAGE; NAME; LIST; RING; TELEPHONE; RECORD; MESSAGE; RECOGNISE; CALL

Derwent Class: P86; W01; W04

International Patent Class (Main): G06M-000/00; H04M-001/57; H04M-001/64; H04M-001/65

International Patent Class (Additional): G10L-005/06; H04M-001/66

File Segment: EPI; EngPI

15/5/9 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

010966600 **Image available**

WPI Acc No: 1996-463549/199646

Related WPI Acc No: 1996-433314; 1996-433315

XRPX Acc No: N96-390421

Channel interface unit for two-wire transmission - converts digital signals to analog signals, removes noise produced by converter and feeds signals into driver coupled with two-wire transmission path, which amplifies signals

Patent Assignee: ANTEC CORP (ANTE-N)

Inventor: HOGAN J P; PERRY S B

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5557669	A	19960917	US 9328884	A	19930310	199646 B
			US 93135023	A	19931012	

Priority Applications (No Type Date): US 9328884 A 19930310; US 93135023 A 19931012

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5557669	A		35	H04M-003/22	Div ex application US 9328884

Abstract (Basic): US 5557669 A

The channel interface unit (120) contains digital circuitry (300), driver circuitry(302), a multiplexer (304) and voice processing circuitry (306). The digital circuitry performs the interface to the channel bank, all timing functions, and both A/D and D/A conversion. The driver circuitry **responds** to the **analog signals** generated by the digital circuitry to produce appropriate voltage and current signals at tip and ring terminals (216,218). The voice processing circuitry digitises differential voice signals which

appear across the tip and ring terminals during audio transmissions on tip and ring wires. The digitised audio signals are passed to the digital circuitry for transmission within the channel. The voice processing circuitry also generates **analog signals** , in **response** to **digital** audio **signals** received from the T1 link.

The signals are sent to the driver circuitry for transmission as differential audio signals on the tip and ring wires. The **signals** appearing on the individual tip and **ring** wires are multiplexed **before** A/D conversion. This means that the A/D process converts a multiplexed signal produced by multiplexing the tip and ring signals in an alternating pattern.

USE/ADVANTAGE - E.g. for transmitting alarm signals between distant customer sites and alarm company premises. Compatible with all alarm signalling techniques and other uses of two-wire transmission. Low DC leakage and effective capacitance. Enables testing of remotely connected telephone lines. Efficient operation, and does not require channel bank to sink current.

Dwg.3/15

Title Terms: CHANNEL; INTERFACE; UNIT; TWO-WIRE; TRANSMISSION; CONVERT; DIGITAL; SIGNAL; ANALOGUE; SIGNAL; REMOVE; NOISE; PRODUCE; CONVERTER; FEED; SIGNAL; DRIVE; COUPLE; TWO-WIRE; TRANSMISSION; PATH; AMPLIFY; SIGNAL

Derwent Class: W01

International Patent Class (Main): H04M-003/22

File Segment: EPI

15/5/10 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

010789796 **Image available**

WPI Acc No: 1996-286749/199629

XRPX Acc No: N96-240777

Incoming telephone call identification system - provides identity of caller in synthesised speech to called party before two parties are connected for communication

Patent Assignee: LUNEAU D J (LUNE-I)

Inventor: LUNEAU D J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5526406	A	19960611	US 92827262	A	19920129	199629	B
			US 94303534	A	19940909		

Priority Applications (No Type Date): US 94303534 A 19940909; US 92827262 A 19920129

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5526406	A		17	H04M-011/00	CIP of application US 92827262

Abstract (Basic): US 5526406 A

The calling party announcement appts. has an identification detector, connected between the telephone set and the telephone system for detecting the caller identification signal. The ring voltage provided by the telephone system to ring the telephone set is detected to indicate an incoming call to the telephone. A central processor processes the caller identification signal to produce a signal corresp. to the identity of the calling party and to generate a ring signal corresp. to the ring detector.

The telephone is isolated from the **telephone** system, in **response** to the ring **signal** , during the time following a first ring to the telephone from the system until the time after the first ring but before the system recognises the telephone has been answered. The system is unaware that the telephone has been answered and continues to

return a ringback indicator to the calling party. A loop current circuit powers the telephone during the time the isolation is activated. An announcing unit transforms the identity signal provided by the central processor to produce an audible signal that announces the calling party's identity through a speaker.

USE/ADVANTAGE - Delivers calling party's name or number via receiver prior to connection of call. Calling party is unaware of ID screening. Provides log book of incoming calls.

Dwg.1/10

Title Terms: INCOMING; TELEPHONE; CALL; IDENTIFY; SYSTEM; IDENTIFY; CALL; SYNTHESIS; SPEECH; CALL; PARTY; TWO; PARTY; CONNECT; COMMUNICATE
Derwent Class: W01; W04
International Patent Class (Main): H04M-011/00
File Segment: EPI

15/5/11 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

010528877 **Image available**
WPI Acc No: 1996-025830/199603
Related WPI Acc No: 2002-421177
XRPX Acc No: N96-021965

Dual type broadcasting system - transmits response to two way broadcasting programme through telephone circuit

Patent Assignee: SONY CORP (SONY)
Inventor: YOSHINOBU H
Number of Countries: 002 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 7297795	A	19951110	JP 94166194	A	19940624	199603	B
US 5606726	A	19970225	US 95395730	A	19950228	199714	

Priority Applications (No Type Date): JP 9460214 A 19940304
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 7297795	A		13	H04H-001/08	
US 5606726	A		15	H04N-007/173	

Abstract (Basic): JP 7297795 A

The dual type broadcasting system receives a response from a destination through a telephone circuit. The telephone number is dialled from the reception side. The response function recognition information recognises the existence of the response and is broadcasted with the main signal. At the broadcasting side this information is separated and saved. When there is a multiple response, messages are received alternatively.

USE/ADVANTAGE - In TV broadcasting such as TV shopping, questionnaire investigation. Avoids unwanted circuitry load. Enables selective call reception corresponding to predetermined function.

Dwg.6/6

Title Terms: DUAL; TYPE; BROADCAST; SYSTEM; TRANSMIT; RESPOND; TWO; WAY; BROADCAST; PROGRAMME; THROUGH; TELEPHONE; CIRCUIT
Derwent Class: W01; W02
International Patent Class (Main): H04H-001/08; H04N-007/173
International Patent Class (Additional): H04N-007/08; H04N-007/081; H04N-007/14
File Segment: EPI

15/5/12 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

010456025
WPI Acc No: 1995-357344/199546
XRPX Acc No: N95-265492
Security appts. for portable telephone system - uses signal monitoring circuit coupled on connection of portable telephone conversation for identification of received line signals indicating ringing signal
Patent Assignee: TRELL A E (TREL-I)
Inventor: TRELL A E
Number of Countries: 000 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
SE 9400403	A	19950807	SE 94403	A	19940206	199546	B

Priority Applications (No Type Date): SE 94403 A 19940206
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
SE 9400403	A		11	H04M-011/02	

Abstract (Basic): SE 9400403 A
The number of ringing signals in the portable telephone system is monitored and limited to a predetermined number and/or to a predetermined max. time period. Upon lack of a response during the monitored period the connection from the portable telephone appts. is disconnected.
By determining the max. number of ringing **signals** to the called subscriber, the possibility exists for installing a **telephone answering** machine which does not answer an incoming call **before** at least one **ringing signal** is received exceeding the number of ringing **signals** which are maximally generated via the portable telephone coupling.
ADVANTAGE - Ensures connection of portable telephone call to connected telephone answering machine is not established.
Dwg.0/0
Title Terms: SECURE; APPARATUS; PORTABLE; TELEPHONE; SYSTEM; SIGNAL; MONITOR; CIRCUIT; COUPLE; CONNECT; PORTABLE; TELEPHONE; CONVERSATION; IDENTIFY; RECEIVE; LINE; SIGNAL; INDICATE; RING; SIGNAL
Derwent Class: W01
International Patent Class (Main): H04M-011/02
File Segment: EPI

15/5/13 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX

009503834 **Image available**
WPI Acc No: 1993-197370/199324
XRPX Acc No: N93-151777
Control circuit for connecting customer premises equipment to telephone loop - uses circuit arrangement disconnecting telephone from loop until caller in data detected and processed for display and automatic response
Patent Assignee: SIERRA SEMICONDUCTOR CORP (SIER-N)
Inventor: LONG D K
Number of Countries: 019 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9311643	A1	19930610	WO 92US10622	A	19921204	199324	B
US 5377260	A	19941227	US 91802627	A	19911205	199506	

Priority Applications (No Type Date): US 91802627 A 19911205
Cited Patents: US 4924496; US 4985913; US 4996704; US 5001710
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9311643	A1	E	29	H04N-011/00	

Designated States (National): CA JP

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
US 5377260 A 11 H04M-011/00

Abstract (Basic): WO 9311643 A
The arrangement controls connection of customer premises equipment (CPE), including a telephone, to a telephone loop. The loop is connected to a telephone system stored program control switching unit transmitting a Caller-ID (CID) during ringing.
A ring detector responds to a ring signal to cause the telephone to be disconnected from the loop. A processing circuit detects the CID, initiates telephone reconnection and display of data concerning the calling party. The data enables automatic responses and the display allows the called party to make an informed decision about answering the telephone.
ADVANTAGE - Inhibits **ringing before** CID **signal** , preventing uninformed party from picking up phone and defeating receipt of CID. Selectively controls CPE connection to telephone system based on origin of call, and subsequent access to data services.
Dwg.4/7
Title Terms: CONTROL; CIRCUIT; CONNECT; CUSTOMER; PREMISES; EQUIPMENT; TELEPHONE; LOOP; CIRCUIT; ARRANGE; DISCONNECT; TELEPHONE; LOOP; CALL; DATA; DETECT; PROCESS; DISPLAY; AUTOMATIC; RESPOND
Derwent Class: W01
International Patent Class (Main): H04M-011/00; H04N-011/00
File Segment: EPI

15/5/14 (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX

008020482 **Image available**
WPI Acc No: 1989-285594/198939
XRPX Acc No: N89-218022
Controllable telephone call annunciator with DTMF detector - has ring detector, delay, signal library current data amplifier and speaker
Patent Assignee: SCHWARTZ N (SCHW-I)
Inventor: SCHWARTZ N
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 4856055	A	19890808	US 88224070	A	19880725	198939	B

Priority Applications (No Type Date): US 88224070 A 19880725
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 4856055	A		12		

Abstract (Basic): US 4856055 A
The annunciator circuit comprises a ring detector (24) for detecting the incoming rings, a relay (26) which is responsive to the rings for turning off the regular ringer, a signal library (28) for storing the predetermined alternative signals, and an amplifier (32) and a speaker (34) for reproducing the signals in an audible manner. Also a current detector (30) is provided to detect direct current flow when the **telephone** is **answered** and thereupon disable the alternative **signal** source. The alternative **signal** may be selected by the telephone user with a switch on the signal library, or by supplying predetermined tones to the circuit, either by the caller or the called party. If by a caller, the caller would use the dual-tone dialling tones to select the alternative **signal** just after the connection is made and preferably **before ringing** started.
The circuit contains a DTMF (dual-tone, multi-frequency) detector (36) to produce binary output codes in response to the DTMF tones, and

a selection logic circuit (38) would be provided to select the signal in the signal library. The system can be alternatively implemented by means of a programmed microprocessor.

ADVANTAGE - Pleasant and non-jarring

Title Terms: CONTROL; TELEPHONE; CALL; ANNUNCIATE; DTMF; DETECT; RING; DETECT; DELAY; SIGNAL; LIBRARY; CURRENT; DATA; AMPLIFY; SPEAKER
Index Terms/Additional Words: DUAL; TONE; MULTI; FREQUENCY
Derwent Class: W01
International Patent Class (Additional): H04M-011/02
File Segment: EPI

15/5/15 (Item 10 from file: 350)

004043023
WPI Acc No: 1984-188565/198430
XRPX Acc No: N84-141054

Telephone privacy appts. allowing only important calls - silencing preselected number of audible ringing signals before **subsequent** signals **are transmitted**

Patent Assignee: FOLDVARY P (FOLD-I)
Inventor: MIRELL S
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 4459435	A	19840710	US 82341480	A	19820121	198430	B

Priority Applications (No Type Date): US 82341480 A 19820121
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 4459435	A		8		

Abstract (Basic): US 4459435 A

The circuit selectively intercepts ringing signals transmitted over the line to a telephone, counts the number of signals and generates a control signal upon the detection of a preselected number of consecutive signals. Switching appts. is for switching subsequent ringing signals through to the telephone. Power for the ringing signal counter and the switching appts. is derived entirely from the ringing signal on the telephone line.

An alternating-current coupling device removes any direct component from the telephone ringing signal and a rectifier provides d.c. pulses from the a'c. ring signals. A voltage regulator clamps the d.c. pulses to a preselected value and a capacitive counter accumulates a charge in response to each clamped pulse. An a.c. switching appts. switches the original ringing **signal** through to the **telephone** in **response** to the detection of a selected number of ring **signals** by the capacitive counter.

ADVANTAGE - Operates independently of ancillary power supplies.

2/5

Title Terms: TELEPHONE; PRIVATE; APPARATUS; ALLOW; IMPORTANT; CALL; SILENCER; PRESELECTED; NUMBER; AUDIBLE; RING; SIGNAL; SUBSEQUENT; SIGNAL; TRANSMIT
Derwent Class: W01
International Patent Class (Additional): H04M-001/00
File Segment: EPI

15/5/16 (Item 11 from file: 350)

003589385

WPI Acc No: 1983-D7582K/198311
XRPX Acc No: N83-049467
Audio responsive digital toy - provides random positive or negative answer and has tones and BCD lights flashing simultaneously
Patent Assignee: SMITH H C (SMIT-I)
Inventor: SMITH H C
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 4375287	A	19830301				198311	B

Priority Applications (No Type Date): US 81246308 A 19810323
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 4375287	A		7		

Abstract (Basic): US 4375287 A
The toy includes a switch having two positions and a response determining circuit which is activated during placement of the switch in its first position to determine a random response. An audio detecting circuit is activated during placement of the switch in its first position and provides an enabling signal responsive to the detection of an audible inquiry. A display device is activated by the enabling signal during the placement of the switch in its second position for displaying the random response determined.
During the placement of the switch in its second psotiion, prior to the display of the random response, there are emitted sensory outputs such as optical display of binary coded decimal numbers, tone **signals** audibly emitted and a **buzzer** shortly **before** the display of the random response.
1/2
Title Terms: AUDIO; RESPOND; DIGITAL; TOY; RANDOM; POSITIVE; NEGATIVE; ANSWER; TONE; BCD; LIGHT; FLASH; SIMULTANEOUS
Derwent Class: P36; W04
International Patent Class (Additional): A63F-009/00
File Segment: EPI; EngPI

15/5/17 (Item 12 from file: 350)
DIALOG(R)File 350:Derwent WPIX

002326531
WPI Acc No: 1980-D2968C/198015
Tone detector for telephone answering system - has microprocessor which monitors incoming signal status from level detector to determine presence of dial tone
Patent Assignee: PLANTRONICS INC (PLAN-N)
Inventor: WILSON D R
Number of Countries: 006 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
GB 2030821	A	19800410				198015	B
SE 7907728	A	19800428				198020	
DK 7904087	A	19800428				198021	
FR 2437749	A	19800530				198028	
DE 2939523	A	19800710				198029	
US 4314103	A	19820202				198207	

Priority Applications (No Type Date): US 78947095 A 19780929

Abstract (Basic): GB 2030821 A
The tone detector comprises a signal detector responsive to voice and steady tone signals for providing an indication of the status of an incoming signal on a telephone line. A processor monitors line signal

status to determine the presence of dial tone and to automatically disconnect the system from the telephone line.

The determination of dial tone is made based upon the continuous existence, over a predetermined time interval, of an incoming line **signal** status representative of a steady tone **signal** . When the automatic **telephone answering** system includes a message recording system and remote access message playback a processor actuated circuitry for inserting a blank interval in an incoming **tone signal** **prior** to being recorded is provided.

Title Terms: TONE; DETECT; TELEPHONE; ANSWER; SYSTEM; MICROPROCESSOR; MONITOR; INCOMING; SIGNAL; STATUS; LEVEL; DETECT; DETERMINE; PRESENCE; DIAL; TONE
Derwent Class: W01; R57
International Patent Class (Additional): H04M-001/64
File Segment: EPI

15/5/18 (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX

001756909
WPI Acc No: 1977-K3418Y/197746
Key telephone system in line circuit - includes 5-state asynchronous sequential machine controlled by input buffer and timing circuits
Patent Assignee: BELL TELEPHONE LAB INC (AMTT)
Number of Countries: 007 Number of Patents: 008
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 4057693	A	19771108				197746	B
BE 857036	A	19771114				197747	
DE 2733476	A	19780202				197806	
SE 7708291	A	19780220				197810	
FR 2360217	A	19780331				197817	
GB 1562956	A	19800319				198012	
CA 1079428	A	19800610				198028	
DE 2733476	C	19820318				198212	

Priority Applications (No Type Date): US 76708857 A 19760728

Abstract (Basic): US 4057693 A

The electronic key telephone line circuit is used for controlling the hold and disconnect conditions with respect to associate **telephone** stations in **response** to transient **signals** generated upon on hook to off-hook and off-hook to on-hook transitions of those stations. Due to the nature of the switch hook contacts, the tip and ring leads open before the A-lead opens.

The disconnect condition is determined from a transient signal caused by the tip and ring lead opening together with an A-lead open. Since the transient response of the tip and ring lead transition can be finished before the A-lead opens, timing is used to delay the transient signal to insure that the line circuit goes into the proper mode

Title Terms: KEY; TELEPHONE; SYSTEM; LINE; CIRCUIT; STATE; ASYNCHRONOUS; SEQUENCE; MACHINE; CONTROL; INPUT; BUFFER; TIME; CIRCUIT
Derwent Class: W01
International Patent Class (Additional): H04M-001/72; H04M-003/42; H04Q-003/24
File Segment: EPI

15/5/19 (Item 14 from file: 350)
DIALOG(R)File 350:Derwent WPIX

001744733

March 26, 2003

WPI Acc No: 1977-J1235Y/197739
Centrally located answering and recording appts. - has optical isolator connected to full wave rectifier which converts ringing signal to DC signal
Patent Assignee: GTE AUTOMATIC ELECTRIC LAB INC (SYLV)
Number of Countries: 002 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 4049915	A	19770920				197739	B
CA 1044833	A	19781219				197902	

Priority Applications (No Type Date): US 75589156 A 19750620

Abstract (Basic): US 4049915 A
The telephone answering and recording system is designed for installation in a centralized location remote from the customer's premises. A single line is employed in normal operation between the customer's telephone equipment and the centrally located answering and recording equipment.
Included is circuitry for counting incoming **ringing signals before** recording of incoming messages begins. A remote access device includes an optical isolator connected to a full wave rectifier. The rectifier is operated in response to a ring to convert it to a DC signal. Protection against false operation due to dial transients is also included.
Title Terms: CENTRAL; LOCATE; ANSWER; RECORD; APPARATUS; OPTICAL; ISOLATE; CONNECT; FULL; WAVE; RECTIFY; CONVERT; RING; SIGNAL; DC; SIGNAL
Derwent Class: W01
International Patent Class (Additional): H04M-001/64; H04M-003/50
File Segment: EPI

18/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

009343154 **Image available**
WPI Acc No: 1993-036618/199304
XRPX Acc No: N93-028043

Broadcasting segmented information signal on e.g. SAP carrier of TV station - using receiver which monitors audio segments in response to digital regional codes and converts them to be compatible with car radio

Patent Assignee: AUTOTALK INC (AUTO-N)
Inventor: EVANS R; MILNER R E; NICHOLSON L R
Number of Countries: 020 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9300748	A1	19930107	WO 92US5203	A	19920618	199304	B
AU 9222284	A	19930125	AU 9222284	A	19920618	199319	
TW 198164	A	19930111	TW 92104739	A	19920617	199325	
US 5276909	A	19940104	US 91720596	A	19910625	199402	

Priority Applications (No Type Date): US 91720596 A 19910625
Cited Patents: US 3729581; US 3949401; US 4369443; US 4584708; US 4627101; US 4663765; US 4969209
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9300748	A1	E	38	H04B-001/00	
Designated States (National): AU CA JP KR					
Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LU MC NL SE					
AU 9222284	A			H04B-001/00	Based on patent WO 9300748
US 5276909	A		16	H04B-007/00	
TW 198164	A			H04M-011/06	

Abstract (Basic): WO 9300748 A

The method involves inserting a fixed tone sequence into the broadcast prior to each broadcast segment, and an identification code into the broadcast after the first **tone** sequence and **prior** to each broadcast segment. The code identifies the following broadcast segment. The system provides e.g. regional traffic information.

The signal includes a number of segments which include a tone sequence (200), a digital duration code (220), and an audio segment (230). A receiver monitors selected regional traffic segments and converts the selected segment to a form compatible with a standard automotive radio.

USE/ADVANTAGE - User can selectively monitor regional traffic information without having to listen to reports from regions of no interest to him, or selected information can automatically override normal radio listening.

Dwg.2/8

Title Terms: BROADCAST; SEGMENT; INFORMATION; SIGNAL; SAP; CARRY; TELEVISION; STATION; RECEIVE; MONITOR; AUDIO; SEGMENT; RESPOND; DIGITAL; REGION; CODE; CONVERT; COMPATIBLE; CAR; RADIO
Derwent Class: W02; W03
International Patent Class (Main): H04B-001/00; H04B-007/00; H04M-011/06
International Patent Class (Additional): H04N-005/38; H04N-005/44; H04Q-003/02
File Segment: EPI

20/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

009082686 **Image available**
WPI Acc No: 1992-210103/199226
XRPX Acc No: N92-159303
Telephone **caller I.D. blocking method - deciding set key number between subscriber and central exchange, receiving number data, detecting** FSK **signal and disconnecting set from line**
Patent Assignee: HASHIMOTO CORP (HASM)
Inventor: HASHIMOTO K
Number of Countries: 004 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
GB 2251157	A	19920624	GB 9120251	A	19910923	199226	B
JP 4181850	A	19920629	JP 90253010	A	19900921	199232	
US 5341411	A	19940823	US 91763470	A	19910923	199433	
GB 2251157	B	19950517	GB 9120251	A	19910923	199523	

Priority Applications (No Type Date): JP 90253010 A 19900921
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2251157	A		19	H04M-001/57	
JP 4181850	A		11	H04M-003/42	
US 5341411	A		8	H04M-001/64	
GB 2251157	B		3	H04M-001/57	

Abstract (Basic): GB 2251157 A
The calling party may prevent display of her **telephone** number to the **called party** . The caller dials an authorised blocking code composed of a 3 or 4 digit numerical code, e.g. by **tone** signals, **before** the conventional number. The **telephone** exchange detects that key number, and blocks sending the calling party **telephone** number to **called party** .
At the receiving **telephone** station, the caller I. is normally detected after the first **ring** . If no I. is present, the set ceases **ringing** after the first **ring** and sets a relay which disconnects the set. The arrangement continues to revert **ringing** signals to the line and may, after a predetermined number of **rings** , activate an answering machine.
USE - Protects privacy of calling party in caller ID network.
Dwg.1/3
Title Terms: **TELEPHONE** ; CALL; BLOCK; METHOD; DECIDE; SET; KEY; NUMBER; SUBSCRIBER; CENTRAL; EXCHANGE; RECEIVE; NUMBER; DATA; DETECT; **FSK** ; SIGNAL; DISCONNECT; SET; LINE
Derwent Class: W01
International Patent Class (Main): H04M-001/57; H04M-001/64; H04M-003/42
International Patent Class (Additional): H04M-001/66
File Segment: EPI

March 26, 2003

File 348:EUROPEAN PATENTS 1978-2003/Mar W03
(c) 2003 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20030320,UT=20030313
(c) 2003 WIPO/Univentio

Set	Items	Description
S1	634951	SIGNAL? OR FREQUENC? OR WAVE? OR PULS?
S2	3500	FSK OR FREQUENC?()SHIFT()KEYING OR LINE()REVERSAL
S3	655490	TELEPHON? OR TELECOM? OR COMMUNICAT? OR (SPEECH? OR VOICE?-)()(MESSAG? OR TRANSMIS? OR TRANSMIT?) OR PHONE? OR FONE? OR -TELEGRAPH? OR TELEMETRY? OR TELEMETER? OR ANALOG? OR DIGITAL?
S4	810234	ANSWER? OR RESPON? OR REPLY? OR ACKNOWLEDG? OR RETURN?-OR -REACT?
S5	1025884	BEFORE OR PREVIOUS? OR PRIOR
S6	380181	RING? OR TONE? OR BUZZ? OR CHIME?
S7	5983	(PHONED OR CALLED)()(PARTY OR PARTIES OR PERSON? OR MAN OR MEN OR WOM?N) OR CALL??()RECEIV?
S8	403	S1(3N)S7
S9	8151	S5(3N)S6
S10	33716	S3(3N)S4
S11	3	S8(S)S9(S)S10
S12	125	S1(S)S3(S)S4(S)S9
S13	12	S12(S)S7
S14	11	S13 NOT S11
S15	12	S2(S)S9
S16	12	S15 NOT (S14 OR S11)
S17	26	S5(5N)S6(5N)S7
S18	22	S17(S)S3
S19	15	S18 NOT (S16 OR S14 OR S11)

11/5,K/1 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00504513 **Image available**
COMMUNICATION SYSTEM AND METHOD FOR ADDRESSING MULTIPLE CAPACITY WIRELESS TRUNK
SYSTEME DE TELECOMMUNICATION ET PROCEDE D'ADRESSAGE DE LIGNES DE JONCTION SANS FIL MULTI-CAPACITE

Patent Applicant/Assignee:
OMNIPOINT CORPORATION,
MENON Narayan P,
ROEDER G R Konrad,
SMITH Douglas G,
MO Richard C,
SOLA Ismail I,
BILGIC Izzet M,
YUHAN Albert H,
DOUGLAS Philip,
Inventor(s):
MENON Narayan P,
ROEDER G R Konrad,
SMITH Douglas G,
MO Richard C,
SOLA Ismail I,
BILGIC Izzet M,
YUHAN Albert H,
DOUGLAS Philip,

Patent and Priority Information (Country, Number, Date):
Patent: WO 9935865 A1 19990715
Application: WO 98US26049 19981208 (PCT/WO US9826049)
Priority Application: US 97988482 19971210; US 97988546 19971210; US 97987957 19971210; US 97988505 19971210; US 97988262 19971210; US 97987872 19971210; US 97987893 19971210
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
Main International Patent Class: H04Q-007/28
Publication Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 37958

English Abstract
A communication system (101) having a wireless trunk for connecting multiple phone stations (102) over wireless communication links to a cellular network. The communication system (101) comprises a central telephone switch (105) such as a private branch exchange or key system, connected through one or more trunk lines to a wireless access communication unit (106), and connected through a landline to a public switched telephone network (125). The wireless access communication unit (106) preferably comprises a separate subscriber interface (104) for each trunk line from the central telephone switch (105). The wireless access communication unit (106) collects data from each of the subscriber interfaces, formats the data into a format compatible with an over-the-air protocol, and transmits the information over one or more wireless channels (108) to a cellular base station (109). The wireless access communication unit (106) thereby provides the central telephone switch (105) with one or more channels to and from the cellular network.

French Abstract

L'invention concerne un systeme (101) de telecommunication comprenant une ligne de jonction sans fil permettant de connecter des lignes (102) telephoniques multiples a un reseau cellulaire par des liaisons de telecommunication sans fil. Ce systeme comprend un commutateur (105) telephonique tel qu'un commutateur prive ou un systeme a cle privee connecte a travers une ou plusieurs lignes de jonction a une unite (106) de communication permettant un acces sans fil. L'unite d'acces sans fil comprend de preference une interface (104) d'abonne distincte pour chaque ligne de jonction provenant du commutateur telephonique central. L'unite (106) d'acces sans fil collecte des donnees de chaque interface d'abonne, formate ces donnees pour leur donner un format compatible a un protocole de telecommunication, et emet l'information par une ou plusieurs voies sans fil, en direction d'une station de base cellulaire. L'unite d'acces sans fil connecte ainsi les appels recus en provenance des lignes de reseau du commutateur telephonique central via une ligne de jonction sans fil en direction d'un reseau.

Fulltext Availability:
Claims

Claim
... said base station, an acknowledgment message from said mobile switching center to said wireless access **communication** unit in **response** to each one of said pair of DTAP messages. 144. The method of Claim 141...to transmit a control traffic signaling message to said base station in response to said **tone** detection signal occurring **prior** to a call being completed over said wireless connection, and causes said radio transceiver to...and said base station using said wireless access communication unit as an intermediary; during said **call** , **receiving** dual-tone multi- **frequency** (DTMF) tones at said wireless I 0 access communication unit from said non-wireless unit...the step of sending DTAP acknowledgment messages from said base station to said wireless access **communication** unit in **response** to acknowledgment of receiving said DTAP messages at said remote location.
102

11/5,K/2 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00456834 **Image available**
A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR SWITCHED TELEPHONY COMMUNICATION
SYSTEME PROCEDE ET ARTICLE CONCU POUR LES COMMUNICATIONS TELEPHONIQUES PAR RESEAU COMMUTE
Patent Applicant/Assignee:
MCI WORLDCOM INC,
Inventor(s):
ZEY David A,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9847298 A2 19981022
Application: WO 98US7927 19980415 (PCT/WO US9807927)
Priority Application: US 97835789 19970415; US 97834320 19970415
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Main International Patent Class: H04M-003/42
International Patent Class: H04M-007/00; H04Q-003/00; H04M-003/30
Publication Language: English
Fulltext Availability:
Detailed Description

Claims
Fulltext Word Count: 156638

English Abstract
A hybrid telecommunication system includes a switched network which transfers information across the Internet to provide multi-routed and multidimensional callback processing. The hybrid network includes one or more switched networks coupled to one or more packet transmission networks, and a call router coupled to the switched communication network and the packet transmission network to route information to the appropriate switched telephony device or Internet device address. A computer with an attached display communicates with the packet transmission network. The computer is used to initiate remote management of the hybrid network, including tests of the hybrid network. The tests include circuit analysis such as selecting signaling states which could be loop start, ground start, or detecting signals such as dual tone multifrequency, multifrequency or dialpulse. The hybrid network includes support for an operator to monitor the management of the hybrid network, and an expert system to regulate the Quality of Service of the hybrid telecommunication system.

French Abstract
La presente invention se rapporte a un systeme de telecommunications hybride comprenant un reseau commute qui transmet les informations via Internet pour permettre un traitement de rappel multidimensionnel a acheminements multiples. Ce systeme hybride comprend un ou plusieurs reseaux commutes couples a un ou a plusieurs reseaux de transmission par paquets, un dispositif d'acheminement d'appels couple au reseau commute, et un reseau de paquets acheminant les informations a l'adresse du dispositif telephonique commute ou du dispositif Internet. Un ordinateur equipe d'un afficheur communique avec le reseau de paquets. L'ordinateur assure le declenchement de la telegestion du reseau hybride ainsi que des tests du reseau hybride. Ces tests comprennent l'analyse du circuit et notamment la selection des etats de signalisation ainsi que le demarrage sur court-circuit ou sur prise de terre, mais aussi la detection de signaux tels que les multifrequences bi-tons, les multifrequences ou les impulsions. Le reseau hybride assure une assistance operateur permettant de surveiller la gestion du reseau hybride, un systeme expert assurant le controle qualite de service (QOF) du systeme de telecommunications hybride.
Fulltext Availability:
Detailed Description

Detailed Description
... traffic.

Packet switched networks, which predominate the computer network industry, divide data into small pieces **called** packets that are multiplexed
onto high capacity intermachine connections. A packet is a block of... available over CEM 248 / 249 and RM 251 / 254 to
alternate paths for attaching various **communication** ports.

When the switch 221 of Figure 1D, is connected to the internet 295, the ...

...accordance with a preferred embodiment. The hybrid switch 221 switches circuits on a public switched **telephone** network (PSTN) 256 with TCP/IP or UDP/IP ports on an internet network 295...their calls to always go to their PC during normal work
hours and to their **phone** at other times. This type of control over the decision to send incoming calls to...phone is on a PBX and the other phone is on the PSTN; and
Both **phones** are on the PSTN.

For each of these variations, the DAP and Directory Service may...
Services. The directory
service performs: Call routing - As calls are made to subscribers using Internet **telephony** services from MCI, the directory service must be queried to determine where the call should...

...logged-in status of the subscriber
service subscriptions identifying the subscriber as a PC or **phone** only user preferred routing choices such as "route to my PC always if I am...Lnternet
PC Telephony
Gateway
1) IP Telephony Dial Dialed number
2) Call ack
3) IP **Telephony Answer**
4)Voice path established
1. A PC uses ...tination
Telephony PC
Gateway
Offer call
1) IP Telephony Dial
2) Call Ack
3) IP **Telephony Answer** Call accept
4)Voice path established
1. An ITG uses its telephony software to send...

11/5,K/3 (Item 3 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00189695 **Image available**
CALLED PERSON IDENTIFICATION IN TELECOMMUNICATION
IDENTIFICATION DE L'APPELE EN TELECOMMUNICATIONS
Patent Applicant/Assignee:
ANDERSON John James,
Inventor(s):
ANDERSON John James,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9107041 A1 19910516
Application: WO 90AU526 19901031 (PCT/WO AU9000526)
Priority Application: AU 897138 19891031
Designated States: AT AT AU BB BE BF BG BJ BR CA CF CG CH CH CM DE DE DK DK ES ES FI FR GA GB GB GR GR HU IT JP KP KR LK LU LU MC MG ML MR MW NL NL NO RO SD SE SE SN SU TD TG US
Main International Patent Class: H04M-001/26
International Patent Class: H04M-01:57; H04M-01:00
Publication Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 74253

English Abstract
A telecommunications arrangement for identifying a specific person to receive a call on a communications device which is shared by a number of persons. Each person sharing the device is identified by a distinctive audio signal and/or a message displayed on the device. In use, a caller dials the telephone number of a telephone line connected to the device, and an additional number to identify a particular person to whom the call is directed. The device, on detecting said additional number, generates said distinctive audio signal and/or displays said message to identify that the call is for this particular person. The additional number is incorporated in unassigned codes in the heading of the user information field of the telephone user part (TUP) in the CCS No. 7 D-channel

signalling in ISDN network.

French Abstract

Un systeme de telecommunications servant a identifier une personne particuliere devant recevoir un appel sur un dispositif de communication qui est partage par plusieurs personnes. Chaque personne qui partage le dispositif est identifiee par un signal audio distinctif et/ou un message affiche sur le dispositif. Pendant l'utilisation, un appeleur compose le numero de telephone d'une ligne telephonique connectee au dispositif, ainsi qu'un numero supplementaire servant a identifier une persone precise a laquelle l'appel est destine. Lorsqu'il detecte ledit numero supplementaire, le dispositif genere ledit signal audio distinctif et/ou affiche ledit message afin de preciser la personne a laquelle l'appel est destine. Le numero supplementaire est incorpore a des codes non attribues dans l'en-tete du domaine de l'information de l'usager de la partie "usager" telephonique (TUP) lors de la signalisation en voie D CCS numero 7 dans un reseau RNIS.

Fulltext Availability:
Detailed Description

Detailed Description

... line, then the switching centre generates and sends down the telephone line a different ringing **signal** . The **called party** 's premises telephone apparatus will emit a distinct, special ring signal which will indicate the...dialled - Mrs Smith's ring tone would sound.

If 3440614 * 3 * 1 * is dialled - No **response** from this bedroom **phone** .

If Mr Smith's ring tone is not answered (or is in turn off mode...

14/5,K/1 **(Item 1 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS

01233493
Calling party announcement message management system and methods
Anrufersanmeldung Nachrichtverwaltungssystem und Verfahren
Methodes et systeme de gestion de messages d'annonce de l'appelant
PATENT ASSIGNEE:
Information Storage Devices, Inc., (1194754), 2727 N. First Street, San Jose, California 95134, (US), (Applicant designated States: all)
INVENTOR:
Horan, Douglas F., 16231 Azalea Way, Los Gatos, California 95032, (US)
LEGAL REPRESENTATIVE:
Wombwell, Francis et al (46021), Potts, Kerr & Co. 15, Hamilton Square, Birkenhead Merseyside L41 6BR, (GB)
PATENT (CC, No, Kind, Date): EP 1069750 A2 010117 (Basic)
APPLICATION (CC, No, Date): EP 305289 000622;
PRIORITY (CC, No, Date): US 354536 990715
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04M-001/57

ABSTRACT EP 1069750 A2
A calling party announcement apparatus and method for providing the identity of the caller in a non-synthesized, pre-recorded human speech. The invention detects and decodes the Incoming Caller Line Identification (ICLID) **signal** between **ring** signals **before** the **called party answers** the **phone** and announces the calling party's name and/or **phone** number. The **called party answers** the **telephone** or rejects the call before the receiver goes off-hook. Additionally, if the **called party** elects to accept the call, the call is **answered** , an individualized pre-recorded message is played back, or any other preferences selected with respect to the ICLID information is performed. An important aspect of the invention is the ability to play and record announcements and messages without the use of expensive and power-consuming **digital signal** processors. The invention provides for recording and locating pre-recorded announcements and predetermined preferences for call acceptance using the decoded ICLID information.
ABSTRACT WORD COUNT: 147
NOTE:
Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application:	010117 A2	Published application without search report
Assignee:	011031 A2	Transfer of rights to new applicant: WINBOND ELECTRONICS CORPORATION (1730992) No. 4, Creation Rd. 3, Science-Based Industrial Park Hsinchu TW

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200103	829
SPEC A	(English)	200103	7091
Total word count - document A			7920
Total word count - document B			0
Total word count - documents A + B			7920

...ABSTRACT pre-recorded human speech. The invention detects and decodes the Incoming Caller Line Identification (ICLID) **signal** between **ring** signals **before** the **called party answers** the **phone** and announces the calling party's name and/or **phone** number. The **called party answers** the **telephone** or rejects the call before the receiver goes off-hook. Additionally, if the **called party** elects to accept the

call, the call is **answered** , an individualized pre-recorded message is played back, or any other preferences selected with respect...

...to play and record announcements and messages without the use of expensive and power-consuming **digital signal** processors. The invention provides for recording and locating pre-recorded announcements and predetermined preferences for...

14/5,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00819029
Communication apparatus having power saving stand-by mode and non-ringing call receiving mode
Ubertragungsgerat mit energiesparendem Bereitschaftsbetrieb und Rufempfangsbetrieb ohne Klingeln
Dispositif de communication avec mode veille d'economie d'energie et avec mode de reception d'appel sans sonnerie
PATENT ASSIGNEE:
CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP), (applicant designated states: DE;ES;FR;GB;IT)
INVENTOR:
Koizumi, Shigeru, c/o Canon K.K., 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP)
Kiguchi, Masao, c/o Canon K.K., 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP)
LEGAL REPRESENTATIVE:
Pellmann, Hans-Bernd, Dipl.-Ing. et al (9227), Patentanwaltsburo Tiedtke-Buhling-Kinne & Partner Bavariaring 4, 80336 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 762728 A2 970312 (Basic)
EP 762728 A3 981216
APPLICATION (CC, No, Date): EP 96113389 960821;
PRIORITY (CC, No, Date): JP 95213531 950822; JP 95290520 951012
DESIGNATED STATES: DE; ES; FR; GB; IT
INTERNATIONAL PATENT CLASS: H04N-001/327; H04N-001/00;

ABSTRACT EP 762728 A2
A communication apparatus has a power saving stand-by mode for reducing power consumption during stand-by and a non-ringing call receiving mode for communication without ringing an attached telephone set at the arrival of a call. In the power saving stand-by mode, an operation state of a relay for attaining the non-ringing call receiving mode is held by a stand-by power supply to render both modes compatible to each other.
ABSTRACT WORD COUNT: 70

LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 970312 A2 Published application (A1with Search Report ;A2without Search Report)
Search Report: 981216 A3 Separate publication of the European or International search report
Examination: 990630 A2 Date of filing of request for examination: 990503
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language Update Word Count
CLAIMS A (English) EPAB97 662
SPEC A (English) EPAB97 4469
Total word count - document A 5131
Total word count - document B 0
Total word count - documents A + B 5131

...SPECIFICATION calling signal (CI) arrives is explained.
Since the apparatus has been set in the non- **ring call receiving**

mode **before** it is set to the ESS stand-by mode, the relays and the control signals...

...by. Accordingly, the switching relay 20 of the NCU 9 is connected to the calling **signal** generator 21 (A). The power supply remove **signal** is off and the quasi calling **signal** output is high. The calling **signal** generator 21 outputs +24V DC voltage. Under such control, the bell of the automatic **answer** /record **telephone** set is not rung by the reception of the calling **signal** even in the ESS stand- by mode and the non-ringing call **signal** receiving mode. The +24V DC voltage may be applied to the automatic **answer** /record **telephone** set 12 and the current flowing in the **telephone** set when the handset is hooked up may be detected by the off-hook detection...

14/5,K/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00730437
Personal mobile communication system
Personliches mobiles Kommunikationssystem
Systeme de communications personnel mobile
PATENT ASSIGNEE:
AT&T Corp., (589370), 32 Avenue of the Americas, New York, NY 10013-2412, (US), (applicant designated states: DE;ES;FR;GB)
INVENTOR:
Foladare, Mark Jeffrey, 8 Matthew Avenue, Kendall Park, New Jersey 08824, (US)
Goldman, Shelley B., 9 Surrey Lane, East Brunswick, New Jersey 08816, (US)
Murray, Nancy, 183 Lake Road, Morris Township, New Jersey 07960, (US)
Silverman, David Philipp, 4 Lowe Road, Somerville, New Jersey 08876, (US)
Tsao, Yao-Chung, 67 Howland Road, Middletown, New Jersey 07748, (US)
Weber, Roy Philip, 940 Turnberry Court, Bridgewater, New Jersey 08807, (US)
LEGAL REPRESENTATIVE:
Harding, Richard Patrick et al (41296), Marks & Clerk, 4220 Nash Court, Oxford Business Park South, Oxford OX4 2RU, (GB)
PATENT (CC, No, Kind, Date): EP 689333 A2 951227 (Basic)
EP 689333 A3 981125
APPLICATION (CC, No, Date): EP 95304092 950614;
PRIORITY (CC, No, Date): US 264651 940623
DESIGNATED STATES: DE; ES; FR; GB
INTERNATIONAL PATENT CLASS: H04M-003/42; H04M-003/54; H04Q-007/38; H04M-011/02; H04M-003/50;

ABSTRACT EP 689333 A2
We have recognized that in the prior art, to insure that there is at least some communication between the calling (101) and called parties (125), when the called party is unavailable to take a call, the calling party (101) may be connected to an alternate destination, e.g., a voice messaging system (141), and the caller's telephone call is considered completed. If the called party (125) thereafter becomes available, the called party (125) is not connected to the caller's telephone call. However, in the invention, this problem is overcome by, in response to receipt of an indication that the called party (125) is available for a caller's telephone call after the caller's telephone call has already been connected to an alternate destination (e.g. 141 or 143), a) disconnecting the caller's telephone call from the alternate destination (141,143) and, instead, b) connecting it to the called party (125), thus interrupting the connection between the caller and the alternate destination. Optionally, a tone or announcement may be supplied to the caller (101) to indicate that the called party (125) will now be connected "live" to the caller. (see image in original document)

ABSTRACT WORD COUNT: 191

LEGAL STATUS (Type, Pub Date, Kind, Text):

Examination:	020123	A2	Date of dispatch of the first examination report: 20011207
Application:	951227	A2	Published application (A1with Search Report ;A2without Search Report)
Change:	971126	A2	Representative (change)
Change:	980107	A2	Representative (change)
Search Report:	981125	A3	Separate publication of the European or International search report
Change:	981125	A2	Obligatory supplementary classification (change)
Change:	990506	A2	Representative (change)
Examination:	990721	A2	Date of filing of request for examination: 990525

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	678
SPEC A	(English)	EPAB96	4216
Total word count - document A			4894
Total word count - document B			0
Total word count - documents A + B			4894

...SPECIFICATION call by directly dialing the telephone number for telephone 125. In the event that the **called party** is unavailable, as indicated by a ring, no- **answer** condition for a predetermined time at **telephone** 125 or a busy **signal** on **telephone** line 117, toll switch 133 disconnects the call from central office 121 and, instead, connects the call to **voice messaging** unit 141, a technique that is well known in the art. Additionally, in accordance with...

...central office 121 records in data base 135 that a) a call was received for **telephone** 125, b) the call was not successfully connected, and c) the call was routed to **voice messaging** unit 141. Optionally, the time the caller's **telephone** call was routed to **voice messaging** unit 141 may also be recorded in data base 135. In accordance with the principles of the invention, if the central office 117 receives an indication that the **called party** has become available, e.g., an off-hook indication is received, central office 121 checks data base 135 to determine if, since the last time the **telephone** 125 went off-hook, there has been a call placed to **telephone** 125 that was not successfully completed and instead was routed to **voice messaging** unit 141. Central office 121 may also determine if such a call was received at a time that it is possible that the caller is still connected to **voice messaging** unit 141. If such a call was received, central office 121 queries toll switch 133 to determine if the caller's **telephone** call is still connected to **voice messaging** unit 141. In accordance with the principles of the invention, if the caller's **telephone** call is still connected, central office 121 instructs toll switch 133 to disconnect the caller's **telephone** call from **voice messaging** unit 133 and to connect it instead through central office 121 to **telephone** 125. Thus, the called and calling parties may converse. As in the **prior** embodiment a **tone** or announcement may be supplied to the caller at **telephone** 101 indicating that the **called party** is being connected on the call.
It is noted that the principles of the invention...

14/5,K/4 (Item 4 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00310654
Telephone equipment with multiple function.

March 26, 2003

Fernsprechvorrichtung mit mehreren Funktionen.
Equipement telephonique a fonctions multiples.

PATENT ASSIGNEE:
HASHIMOTO CORPORATION, (237730), 28-2, Komazawa 2-chome, Setagaya-ku, Tokyo 154, (JP), (applicant designated states: DE;GB)
INVENTOR:
Hashimoto, Kazuo, 28-2 Komazawa 2-Chome, Setagaya-ku Tokyo 154, (JP)
LEGAL REPRESENTATIVE:
Beresford, Keith Denis Lewis et al (28273), BERESFORD & Co. 2-5 Warwick Court High Holborn, London WC1R 5DJ, (GB)

PATENT (CC, No, Kind, Date): EP 284401 A2 880928 (Basic)
EP 284401 A3 890614
EP 284401 B1 930602
APPLICATION (CC, No, Date): EP 88302634 880324;
PRIORITY (CC, No, Date): JP 8770009 870324
DESIGNATED STATES: DE; GB
INTERNATIONAL PATENT CLASS: H04M-001/00; H04M-001/65;
CITED PATENTS (EP A): GB 2160390 A; US 3822364 A

CITED REFERENCES (EP A):
PATENT ABSTRACTS OF JAPAN, vol. 11, no. 190 (E-517) 2637 , 18th June 1987; & JP-A-62 18 859 (MATSUSHITA ELECTRIC IND. CO. LTD) 27-01-1987
PATENT ABSTRACTS OF JAPAN, vol. 10, no. 347 (E-457) 2403 , 21st November 1986, page 9 E 457; & JP-A-61 147 662 (IWATSU ELECTRIC CO. LTD) 05-07-1986
PATENT ABSTRACTS OF JAPAN, vol. 10, no. 244 (E-430) 2300 , 22nd August 1986; & JP-A-61 74 440 (MATSUSHITA ELECTRIC IND. CO. LTD) 16-04-1986
PATENT ABSTRACTS OF JAPAN, vol. 8, no. 66 (E-234) 1503 , 28th March 1984; & JP-A-58 215 850 (OLYMPUS KOGAKU KOGYO K.K.) 15-12-1983
FUNKSCHAU, no. 7, March 1983, pages 61-63, Munich, DE;H.-G. L!HMANN et al.: "Digitaler Anrufbeantworter: Sprach-Men}"
PATENT ABSTRACTS OF JAPAN, vol. 10, no. 217 (E-423) 2273 , 29th July 1986; & JP-A-61 54 749 (FUJITSU LTD);

ABSTRACT, EP 284401 A2
Conventional telephone answering device incorporated in or combined with a telephone set is now generally used. However, the conventional telephone set has a plurality of buttons, for instance, speed dialing, mute, flash or radial buttons, and further the telephone answering device incorporated in the telephone set has also many buttons for controlling the device. So the user is confused at the sight of a number of buttons and he hesitates to use the device. Most conventional telephone answering device can be remotely operated from remote location by using ten keys, and asterisk and pound sign keys of a push phone, so as to rewind, fast forward, or record an outgoing and incoming message. The present invention makes the common use of push phone button for telephone set and telephone answering device, and also the telephone answering device can be manually operated at home in same way as in remote control operation by using some kind of push phone buttons of outside telephone set. The present invention also makes it possible to record two-way conversation manually by use of some of ten-key buttons during off-hook mode of telephone set.
ABSTRACT WORD COUNT: 192

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application:	880928	A2	Published application (A1with Search Report ;A2without Search Report)
Change:	890607	A2	Obligatory supplementary classification (change)
Search Report:	890614	A3	Separate publication of the European or International search report
Examination:	891011	A2	Date of filing of request for examination: 890817
Examination:	910220	A2	Date of despatch of first examination report: 910107
Grant:	930602	B1	Granted patent

Oppn None: 940525 B1 No opposition filed
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
'CLAIMS B	(English)	EPBBF1	273
CLAIMS B	(German)	EPBBF1	655
CLAIMS B	(French)	EPBBF1	834
SPEC B	(English)	EPBBF1	6839
Total word count - document A			0
Total word count - document B			8601
Total word count - documents A + B			8601

...SPECIFICATION can be controlled in response to the operation of either the calling party of the **called party** while the **called party** hangs on, more particularly during the conversation between the parties. It is also possible to...ON" and the microphone MIC is set. In condition of the above, when a start **pulse** from the output port P21 is output, the answering message which is talked to the...

...pushed once as setting by the tape. When the program detects the pushing, a stop **pulse** from the output port P22 is output, and solves the said recording operation. When the start **pulse** or the stop **pulse** is output, the LSI for control 61 memorized the start address, the stop address of...

...set at L level, and changes to playback mode. As the above, when the start **pulse** is output after the first phrase is selected, the answering message is played back from...

...message. Namely,when the other party sets the deice at the on-hook, the stop **pulse** is output. In remote control, in order to playback the receiving message, after next phrase of the answering message is designated, the start **pulse** is output in playback mode. When the phrase reaches the end, the output terminal EOS...

...at H level (the output terminal EOS is returns to L level by the start **pulse**). When the H level is detected by the CPU, the program changes the phrase to the next phrase, and plays back all receiving message automatically. In the above example, the **telephone answering** device as the device in the **telephone** set is explained, but this application does not limit the **telephone answering** device, for example it is possible to use in the transmission of information which is shown in "THE SYSTEM OF RECEIVING INFORMATION BY USING PUSH **PHONE** " (Japanese Patent Application No. 58-188732, Publication No. 60-80354) by the same applicant. Namely...

...not shown in the figure, but in the condition of the on-hook of the **telephone** set, on easy sentence made of the number or the alphabet is made by key operation of the dial key, and is memorized in a memory. And the **telephone** set is set at the on-hook and the other party is called by dial operation. When the talking over the **telephone** is set as the above, it is possible to control the device in the **telephone** set. And when one of the dial key or other specific key is pushed, the function of solid recording set in the device in the **telephone** set or the **telephone answering** device or the recording/playback device having small mechanical recording/playback device by function of the on-hook dial and the off-hook dial of the conventional **telephone** set having various functions. As a result, a part of machinery becomes small and when each function of the **telephone** having various functions which is changing to the solid recording device without tape, is controlled, the buttons on the surface of the **telephone** having various functions must have various functions, for example a function of re-dial, a...

...Scope of practical application is wide. Namely,in the example, when the device in the **telephone** set is controlled manual or the device in the

telephone set is controlled by remote control, the buttons "1,'2", "3" are used, however, the...

...by distributing all of ten-key to operate complex operation for specific device. However,the **telephone answering** device in the **telephone** set which is on the market has difference between the operation by remote-control and...

14/5,K/5 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00985196 **Image available**
PORTABLE CONSUMER ELECTRONICS DEVICE
DISPOSITIF ELECTRONIQUE PORTATIF DE GRANDE CONSOMMATION
Patent Applicant/Assignee:
KONINKLIJKE PHILIPS ELECTRONICS N V, Groenewoudseweg 1, NL-5621 BA Eindhoven, NL, NL (Residence), NL (Nationality)
Inventor(s):
BULTHUIS Willem, Prof . Holstlaan 6, NL-5656 AA Eindhoven, NL,
SHTEYN Yevgeniy E, Prof . Holstlaan 6, NL-5656 AA Eindhoven, NL,
Legal Representative:
DEGUELLE Wilhelmus H G (agent), Internationaal Octrooibureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200315384 A2 20030220 (WO 0315384)
Application: WO 2002IB3283 20020807 (PCT/WO IB0203283)
Priority Application: US 2001927592 20010810; US 2002136978 20020430
Designated States: CN JP KR
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
Main International Patent Class: H04M-001/725
International Patent Class: H04M-001/65
Publication Language: English
Filing Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 7232

English Abstract
A consumer electronics device, such as a cell phone, digital camera or tracking device, is designed to record real time audio and/or video as well as location based information. The recording can be remotely monitored and stored for the purpose of creating a personal logbook or for the purpose of tracking a person or object on the move.

French Abstract
Dispositif electronique de grande consommation, tel qu'un telephone cellulaire, un appareil photo numerique ou un dispositif de localisation, concu pour enregistrer en temps reel des donnees audio et/ou video ainsi que des informations de localisation. L'enregistrement peut etre surveille a distance et stocke en vue de produire un journal personnel ou de localiser une personne ou un objet en deplacement.

Legal Status (Type, Date, Text)
Publication 20030220 A2 Without international search report and to be republished upon receipt of that report.

Fulltext Availability:
Detailed Description

Detailed Description
... are detected. Some countries use different tones for different call status, but the periodicity and **frequency** spectrum is sufficient to

recognize the tones as such. For **calls** **received** , starting recording is not a major issue, since the recording can begin when the user **answers** the **phone** . For calls initiated at the device, optionally, in a post-processing step (after completion of in tones gets recorded using a software procedure that, in a repetitive **tone** sequence, overwrites a **previous** similar **tone** with the current one in the recording memory. In yet another embodiment, the abrupt break of the dial 1 5 tone sequence (when the other party picks up the **phone**) may have an acoustic fingerprint that serves as a **signal** to start the recording.

The invention is especially relevant to users of mobile communication devices...

14/5,K/6 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00985195 **Image available**
CONVERSATION REWIND
REBOBINAGE DE CONVERSATION
Patent Applicant/Assignee:
KONINKLIJKE PHILIPS ELECTRONICS N V, Groenewoudseweg 1, NL-5621 5621 BA Eindhoven, NL, NL (Residence), NL (Nationality)
Inventor(s):
BULTHUIS Willem, Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,
Legal Representative:
DEGUELLE Wilhelmus H G (agent), Internationasl Octrooibureau B.V., Prof Holstlaan 6, NL-5656 AA Eindhoven, NL,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200315383 A2 20030220 (WO 0315383)
Application: WO 2002IB3228 20020808 (PCT/WO IB0203228)
Priority Application: US 2001927592 20010810
Designated States: CN JP KR
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
Main International Patent Class: H04M-001/725
International Patent Class: H04M-001/65
Publication Language: English
Filing Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 4544

English Abstract
A consumer electronics device, such as a cell phone, is designed to record real time communications occurring on it. Recording is started when a communication is initiated, either by the user making or accepting a call, or when a user presses a button. Recordings are stored and organized for ease of retrieval. Recordings can be forwarded to a remote user.

French Abstract
Ce dispositif electronique utilisateur, un telephone cellulaire notamment, est concu pour enregistrer en temps reel des communications recues. L'enregistrement debute lorsque commence la communication, soit parce que l'utilisateur lance un appel ou l'accepte, soit parce que cet utilisateur a appuye sur un bouton de commande. Les enregistrements sont memorises et agence en vue d'une recuperation facile. Il est possible de retransmettre ces enregistrements a un utilisateur a distance.
Legal Status (Type, Date, Text)
Publication 20030220 A2 Without international search report and to be republished upon receipt of that report.

Fulltext Availability:

Detailed Description

Detailed Description
... are detected. Some countries use different tones for different call status, but the periodicity and **frequency** spectrum is sufficient to recognize the 1 5 tones as such. For **calls** **received** , starting recording is not a major issue, since the recording can begin when the user **answers** the **phone** . For calls initiated at the device, optionally, in a post-processing step (after completion of... .

...of the calling-in tones gets recorded using a software procedure that, in a repetitive **tone** sequence, overwrites a **previous** similar **tone** with the ...the abrupt break of the dial tone sequence (when the other party picks up the **phone**) may have an acoustic fingerprint that serves as a **signal** to start the recording.

The invention is especially relevant to users of mobile communication devices...

14/5,K/7 (Item 3 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00911231 **Image available**
TELEPHONY SERVICES IN A PACKET NETWORK
MESSAGERIE DE RESEAU INTELLIGENT/RESEAU INTELLIGENT DE POINTE LIE AU PROTOCOLE D'INITIATION DE SESSION
Patent Applicant/Assignee:
NORTEL NETWORKS LIMITED, 2351 Boulevard Alfred-Nobel, St. Laurent, Quebec H4S 2A9, CA, CA (Residence), CA (Nationality)
Inventor(s):
GAWARGY Michael M, 650 Seyton Drive, Nepean, Ontario K2H 1A1, CA,
NICOLETTA Johanna Pearl Ruth, 70 Oakridge Boulevard, Nepean, Ontario K2G 2T8, CA,
Legal Representative:
DANIELS Kent (et al) (agent), Ogilvy Renault, 1981 McGill College Avenue, Suite 1600, Montreal, Quebec H3A 2Y3, CA,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200245439 A2-A3 20020606 (WO 0245439)
Application: WO 2001CA1711 20011130 (PCT/WO CA0101711)
Priority Application: US 2000725921 20001130
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZM ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04Q-003/00
Publication Language: English
Filing Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 7910

English Abstract
A method and system enables distributed transaction oriented telephony functionality for telephony services in a broadband packet network. Exemplary distributed transaction oriented telephony functionality includes Intelligent Network (IN) and Advanced Intelligent Network (AIN) functionality accessed through the legacy Common Channel Signaling (CCS) network using transaction-based messaging protocols, such as Intelligent

Network Application Part (INAP) and/or Transaction Capability Application Part (TCAP) protocols. A functional content of a transaction message, such as a TCAP message, is encapsulated in a Protocol Data Unit (PDU) of the broadband packet network. The PDU is forwarded through the broadband packet network to a second network element. The functionality is then invoked using the encapsulated transaction message functional content. In preferred embodiments the PDU is a Session Initiation Protocol (SIP) envelope, into which TCAP message functional content can be mapped.

French Abstract
L'invention concerne un procede et un systeme permettant d'obtenir une fonctionnalite de telephonie orientee transaction repartie destinee aux services de telephonie dans un reseau a commutation par paquets a large bande. Une de ces fonctionnalites de telephonie orientee transaction repartie comprend une fonctionnalite de reseau intelligent (RI) et de reseau intelligent de pointe (AIN) a laquelle on accede par le reseau de signalisation sur voie commune (SVC) a l'aide de protocoles de messagerie lies aux transactions, tels que les protocoles de sous-systeme d'application du reseau intelligent (INAP) et de sous-systeme pour la gestion des transactions (SSGP). Un contenu fonctionnel d'un message de transaction, tel qu'un message TCAP, est encapsule dans une unite de donnees du protocole (PDU) du reseau a commutation par paquets a large bande. L'unite de donnees du protocole est renvoyee par le reseau a commutation par paquets a large bande vers un second element de reseau. La fonctionnalite est alors appelee a l'aide du contenu fonctionnel du message de transaction encapsule. Dans des modes de realisation preferes, l'unite de donnees du protocole est une enveloppe de protocole d'initiation de session (SIP), dans laquelle le contenu fonctionnel du message TCAP peut etre adresse.

Legal Status (Type, Date, Text)
Publication 20020606 A2 Without international search report and to be republished upon receipt of that report.
Search Rpt 20020926 Late publication of international search report
Republication 20020926 A3 With international search report.

Fulltext Availability:
Detailed Description

Detailed Description
... transaction. As shown in Fig. 5a, an attempt by a calling party to establish a **telephone** connection between **phone** A and a **called party** at **phone** D results in conventional ISUP-IAM messaging between SSP-A and SSP-D (step S62), which@ detects **phone** B in use (off hook) and therefore **returns** a conventional ISUP-Rel message to SSP-A (step S64) . Upon receipt of the "busy" **signal** , the calling party activates the RAG feature and places **phone** A on-hook (step S66) As a ...result, SSP-A forwards a TCAP-QwP (NRAG) message to SSP-B (step S68), which **responds** with a TCAP-CwP message **acknowledging** the TCAP-QwP (NRAG) message (step S70). When the **called party** places **phone** B on-hook (step S72), SSP-D forwards a TCAP-CwP message to SSP-A (step S74), which **responds** with a TCAP (NRAG complete) message (step S76) SSP-A can then notify the calling party that the **called party** is now free (messaging not shown).

Fig. 5b illustrates the equivalent Ring AGain (RAG) transaction...

14/5,K/8 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00809720 **Image available**

POCKET ELECTRONIC TELEPHONE NOTEBOOK

ANNUAIRE ELECTRONIQUE DE POCHE

Patent Applicant/Inventor:
BALDINO Giuseppe, Reg. Barrank c.p. 126, I-07041 Alghero, IT, IT (Residence), IT (Nationality)
Legal Representative:
ZANELLA Ireneo (agent), Zanella & Associati S.r.l., Via Leonardo da Vinci, 12, I-22074 Lomazzo, IT,

Patent and Priority Information (Country, Number, Date):
Patent: WO 200143407 A1 20010614 (WO 0143407)
Application: WO 2000EP12292 20001206 (PCT/WO EP0012292)
Priority Application: IT SS99000009 U 19991207 (IT U)
Designated States: BR CA CN CZ GE HR HU IL IN JP KR LV MX NO NZ PL RU SG SI SK TR UA US YU
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
Main International Patent Class: H04M-001/275
Publication Language: English
Filing Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 3222

English Abstract
A pocket electronic telephone notebook (1) to be functionally coupled to a fixed telephone network is provided. The notebook (1), which can be coupled, for example, between a wall outlet (12) of the telephone network and a telephone set (14) substantially comprises an interface (2) of the telephone network, a centrally unit (3), a display (4), an alphanumeric keypad (6) and a communication interface (7), an interlinking bus (8) and linking means for providing a coupling with an outer alphanumeric keypad (16) and a PC (27), said telephone notebook (1) being designed to provide a full identification of the calling party by displaying, in addition to the telephone number also the name of said calling party, and to allow a quick and easy storing of not yet stored calling party names. Preferably, the notebook (1) also performs, according to any desired combinations, a quick calling function, a urgency answer function, a call serving function, a SMS message reception function and so on, and can hold a CD reader therein.

French Abstract
L'invention concerne un annuaire electronique de poche (1) qu'on branche de maniere fonctionnelle sur un reseau telephonique fixe. L'annuaire (1), qui peut se raccorder par exemple entre une prise murale (12) du reseau telephonique et un combine (14), comprend essentiellement une interface (2) du reseau telephonique, une unite centrale (3), un ecran (4), un clavier alphanumerique (6) et une interface de communication (7), un bus de liaison (8) et un dispositif de raccordement a un clavier alphanumerique exterieur (16) et a un ordinateur personnel (27). Cet annuaire (1) est concu pour permettre l'identification complete de l'appelant par affichage non seulement du numero de telephone mais aussi du nom de l'appelant, et par stockage rapide et facile des noms d'appelants non encore enregistres. De preference, l'annuaire (1) permet egalement de combiner a loisir des fonctions d'appel rapide, de reponse urgente, de service d'appels, de reception de messages SMS, etc. L'annuaire peut en outre integrer un lecteur de CD.

Legal Status (Type, Date, Text)
Publication 20010614 A1 With international search report.
Publication 20010614 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.
Examination 20011004 Request for preliminary examination prior to end of

March 26, 2003

19th month from priority date
Fulltext Availability:
Detailed Description

Detailed Description
... being lost, and then performing, based on the answer, in the case of a busy **called party**, a number of call trials, while considering in this operation, for calculating the **telephone** call cost the starting of the call.

Moreover, if several telephone companies or operators are...

14/5,K/9 (Item 5 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00412543 **Image available**
TELEPHONE APPARATUS
TELEPHONE
Patent Applicant/Assignee:
BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY,
CHAPMAN Ian David,
BUTTERY Stephen John,
WALKER Simon,
Inventor(s):
CHAPMAN Ian David,
BUTTERY Stephen John,
WALKER Simon,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9803004 A1 19980122
Application: WO 97GB1850 19970707 (PCT/WO GB9701850)
Priority Application: GB 96305600 19960711; GB 96305370 19960711
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Main International Patent Class: H04M-001/72
International Patent Class: H04M-01:66; H04M-03:54
Publication Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 7810

English Abstract
A telephone apparatus (1) for connection to a telecommunications network (7) by means of an exchange line (6) has signal recognition means (21, 23) for detecting and recognising calling line identity (CLI) and called number identity (CNI) signalling transmitted over the exchange line (6) and routing means (20, 30) for causing an incoming call to be transferred to a second exchange line in response to specified CLIs and/or CNIs.

French Abstract
Un appareil telephonique (1), destine a etre connecte a un reseau de telecommunication (7) par l'intermediaire d'une ligne urbaine (6), comporte un systeme de reconnaissance de signaux (21, 23) permettant de detecter et de reconnaitre les signaux d'identite de la ligne appelante (CLI) et d'identite du numero appelant (CNI) transmis par la ligne (6), et un systeme d'acheminement (20, 30) permettant de transferer un appel entrant sur une seconde ligne urbaine en reponse a des CLI et/ou des CNI specifies.

Fulltext Availability:
Detailed Description

Detailed Description
... this service an incoming call made to an exchange line is intercepted, such that the **called party** can arrange for the calling party to be connected to a third party, the original...

...takes place whilst the call is in progress (i.e. after the call has been **answered**), but in the present embodiment the apparatus is arranged to carry out the transfer as soon as the connection to the **called party** is made, and **before** ringing **tone** is applied to the handset. Call Transfer is distinct from Call Diversion in that Call...

...is already in use, but it is less versatile as it does not permit the **called party** to select different treatment for different calls. The term "routing", as used in this specification...

14/5,K/10 (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00412541 **Image available**
CORDLESS TELEPHONE APPARATUS
TELEPHONE SANS FIL
Patent Applicant/Assignee:
BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY,
WARBURTON Robert John,
BUTTERY Stephen John,
Inventor(s):
WARBURTON Robert John,
BUTTERY Stephen John,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9803002 A1 19980122
Application: WO 97GB1848 19970707 (PCT/WO GB9701848)
Priority Application: GB 96305601 19960711
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Main International Patent Class: H04M-001/72
International Patent Class: H04M-03:54
Publication Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 7372

English Abstract
A cordless telephone base station (1) for connection to a telecommunications network (7) has means (11) for handling incoming calls according to the presence or absence of the handsets (3a, 3b) as detected by responses to paging signals transmitted by the base station.

French Abstract
Une station de base de telephone sans fil (1), destinee a etre connectee a un reseau de telecommunication (7), comporte un systeme (11) qui lui permet de traiter les appels entrants en fonction de la presence ou de l'absence des combines (3a, 3b), ladite presence ou absence etant detectee par les reponses aux signaux de radiomessagerie emis par la station de base.

Fulltext Availability:
Detailed Description

Detailed Description
... this service an incoming call made to an exchange line is intercepted, such that the **called party** can arrange for the calling party to be connected to a third party, the original...

...takes place whilst the call is in progress (i.e. after the call has been **answered**), but in the present embodiment the apparatus is arranged to carry out the transfer as soon as the connection to the **called party** is made, and **before** ringing **tone** is applied to the handset. ...is already in use, but it is less versatile as it does not permit the **called party** to select different treatment for different calls. Call Transfer is not yet generally available on...

14/5,K/11 (Item 7 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00237379
TELEPHONE CIRCUIT TO CONTROL OFF-HOOK STATUS DURING RECEIPT OF CALLER-ID SIGNAL
CIRCUIT DE TELEPHONE DE COMMANDE DE L'ETAT ''DECROCHE'' PENDANT LA RECEPTION D'UN SIGNAL D'IDENTIFICATION DE L'APPELANT
Patent Applicant/Assignee:
SIERRA SEMICONDUCTOR CORPORATION,
Inventor(s):
LONG David K,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9311643 A1 19930610
Application: WO 92US10622 19921204 (PCT/WO US9210622)
Priority Application: US 91627 19911205
Designated States: CA JP AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
Main International Patent Class: H04N-011/00
Publication Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 5461
English Abstract
A telephone system includes a data modem (66) that is coupled to a control microprocessor (65) and a Data Access Arrangement (DAA) (63) for detecting a Caller-ID. The detected information is used to select a specific action dependent upon the specific Caller-ID. A programmed Intelligent Work Station (IWS) (69) determines whether to respond to the call and the type of response.

French Abstract
Un systeme telephonique comprend un modem de donnees (66) couple a un microprocesseur de commande (65) et un Agencement d'Acces a des Donnees (AAD) (63) pour detecteur un signal d'identification de l'appelant. L'information detectee est utilisee comme critere de selection d'un action specifique en fonction du signal d'identification specifique a l'appelant. Une Station Intelligente programmee (SI) (69) determine s'il sera repondu a l'appel et le type de reponse.

Fulltext Availability:
Detailed Description

Detailed Description
... It should be assumed that relays Ryl and Ry2 are normally closed so that the **telephones** connected to jacks J1 and J2 are available to place

outgoing calls. An incoming call...

...relay coils Rc1 and Rc2,
thereby switching Ry1 and Ry2 to an open state, The **telephones** connected to jacks,J1 and J2 are therefore inoperable, and hence there will be no audible ringing, After the first ring, the CID **signal** is received by the demodulator 36 which converts the **signal** to a binary **signal** which is transferred to the logic circuit 35 and then to the display device 37 where the DN corresponding to the CID **signal** is displayed. The logic circuit 35 compares the DN to the stored DN and decides...

...Ry1 and Ry2. If the relays are deenergized, jacks J1 and J2 and their respective **telephones** are reconnected to the **phone** line. Alternatively the logic circuit can deenergize the relays just **prior** to the second **ring** . By viewing the displayed DN the **called party** can make a more intelligent decision as to whether or not to **answer** the **phone** , If the **phone** is not **answered** ,, no record of the call is made. The **phone** stops ringing when the calling party terminates the call,
In the modified embodiment shown in or should not be **answered** . The operation of the modified system is similar to the basic system except that the detected CID **signal** is supplied as one input to the compare logic 41 while the memory 40 is scanned to provide the list of DNs representing calls to be **answered** or ignored, If a match is found, the display device receives an appropriate indication alerting the customer to **answer** or ignore the **phone** . If no match is found the logic circuit 41 provides a different indication to the display device 37 and proceeds to reconnect J1 and J2 to the **telephone** line, The DN of the calling party may be stored in memory 40 and subsequently...

16/5,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00933782
Communication system with caller identification transmission
Kommunikationssystem mit Ubertragung der Anruferidentifizierung
Systeme de communication avec transmission de l'identite de l'appelant
PATENT ASSIGNEE:
Koninklijke KPN N.V., (1066893), Stationsplein 7, 9726 AE Groningen, (NL), (applicant designated states: AT;BE;CH;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;NL;PT;SE)
INVENTOR:
Pieterse, Rob, c/o KPN Research, St. Paulusstraat 4, 2264 XZ Leidschendam, (NL)
LEGAL REPRESENTATIVE:
Wuyts, Koenraad Maria et al (93292), Koninklijke KPN N.V., Intellectual Property Group, P.O. BOX 95321, 2509 CH The Hague, (NL)
PATENT (CC, No, Kind, Date): EP 851645 A1 980701 (Basic)
APPLICATION (CC, No, Date): EP 96203669 961223;
PRIORITY (CC, No, Date): EP 96203669 961223
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; NL; PT; SE
INTERNATIONAL PATENT CLASS: H04M-001/57
ABSTRACT EP 851645 A1
The present invention relates to a communication system comprising a communication network arranged for sending in conjunction with incoming calls, Calling Line Identification (CLI) messages to user stations connected thereto, providing these stations with the numbers of calling lines. In order to provide the user stations in a cheap and simple way also with the time at which incoming calls take place, the user stations comprise a clock, which is to be synchronized regularly using synchronizing messages SYNC coming from the communication network having the same type of data format as the CLI messages.
ABSTRACT WORD COUNT: 95

LEGAL STATUS (Type, Pub Date, Kind, Text):

Change:	010711	A1	Legal representative(s) changed 20010522
Application:	980701	A1	Published application (A1with Search Report ;A2without Search Report)
Examination:	030212	A1	Date of dispatch of the first examination report: 20030107
*Assignee:	981202	A1	Applicant (name, address) (change)
Change:	990113	A1	Representative (change)
Examination:	990310	A1	Date of filing of request for examination: 990104
Change:	990317	A1	Designated Contracting States (change)
Change:	990407	A1	Representative (change)

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9827	531
SPEC A	(English)	9827	3948
Total word count - document A			4479
Total word count - document B			0
Total word count - documents A + B			4479

...SPECIFICATION and Sweden, the message is sent by way of Dual Tone Multiple Frequency (DTMF) signals **before** the first **ringer** signal is sent. The data format A of this message is shown in the upper...

...10 data positions. Other standards as used in for example in the United States use **Frequency Shift Keying** (**FSK**) signals, which are sent to the user station between the first and second ring signal. Because the reachable data rate of **FSK** -signals is much higher than that of DTMF

signals the messages sent to the user...

...fields, as the actual message fields constituting the data part 41, are digitally represented by **frequency shift keying** , a 1200 Hz signal representing a "mark" (logical 1) and a 2200 Hz signal representing...

16/5,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00902611
Device for converting the format of calling line identification signals
Vorrichtung zur Formatsumwandlung von Rufleitungs-Identifizierungssignalen
Dispositif de conversion du format de signaux d'identification de ligne appelante
PATENT ASSIGNEE:
Koninklijke KPN N.V., (1066893), Stationsplein 7, 9726 AE Groningen, (NL), (applicant designated states: AT;BE;CH;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;NL;PT;SE)
INVENTOR:
Pieterse, Rob, c/o KPN Research, St. Paulusstraat 4, 2264 XZ Leidschendam, (NL)
LEGAL REPRESENTATIVE:
Wuyts, Koenraad Maria et al (93292), Koninklijke KPN N.V., Intellectual Property Group, P.O. BOX 95321, 2509 CH The Hague, (NL)
PATENT (CC, No, Kind, Date): EP 823807 A1 980211 (Basic)
APPLICATION (CC, No, Date): EP 97202218 970716;
PRIORITY (CC, No, Date): EP 96202245 960809
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; NL; PT; SE
INTERNATIONAL PATENT CLASS: H04M-001/57

ABSTRACT EP 823807 A1
The invention provides a device (1) for converting call identification (CLI) messages from a first (e.g. European) format to a second (e.g. US) format. To this end, the device (1) comprises detection means (5) for detecting an incoming call, receiving means (4) for receiving a CLI message (30) in the first (e.g. European) format (A), processing means (6) for processing control data (31, 33) and CLI data (32) without substantially altering the CLI data proper, and output means (7) for outputting the converted message (40) in the second (e.g. US) format (B). Such a device (1) allows generally available CLI equipment to be used, even in environments using deviating signalling protocols.
ABSTRACT WORD COUNT: 112

LEGAL STATUS (Type, Pub Date, Kind, Text):

Change:	010711	A1	Legal representative(s) changed 20010522
Application:	980211	A1	Published application (A1with Search Report ;A2without Search Report)
Examination:	020717	A1	Date of dispatch of the first examination report: 20020528
Examination:	981007	A1	Date of filing of request for examination: 980811
Change:	981021	A1	Designated Contracting States (change)
*Assignee:	981202	A1	Applicant (name, address) (change)
Change:	990407	A1	Representative (change)

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9807	367
SPEC A	(English)	9807	2487
Total word count - document A			2854
Total word count - document B			0
Total word count - documents A + B			2854

...SPECIFICATION US or Bellcore standard, used in the United States, where CLI signals are transmitted as **FSK (Frequency Shift Keying)** signals between ringing signals. The other is the European or ETSI (European Telecommunications Standardisation Institute) standard, where CLI signals are transmitted **before** the first **ring** as DTMF (Dual Tone Multiple Frequency) signals.
The different standards in turn lead to different...

16/5,K/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00778543
COMPUTER-BASED MULTIFUNCTION PERSONAL COMMUNICATION SYSTEM WITH CALLER ID
RECHNERGESTUTZTES PERSONLICHES KOMMUNIKATIONSSYSTEM MIT MEHREREN FUNKTIONEN UND MIT ANRUFERIDENTIFIZIERUNG
SYSTEME DE COMMUNICATIONS PERSONNELLES MULTIFONCTION INFORMATISEE AVEC IDENTIFICATION DU DEMANDEUR
PATENT ASSIGNEE:
Multi-Tech Systems Inc, (1808070), 2205 Woodale Drive, Mounds View, Minnesota 55112, (US), (Proprietor designated states: all)
INVENTOR:
CASWELL, Ty, J., 651 Park Avenue East, Big Lake, MN 55309, (US)
DAVIS, Jeffrey, P., 3244 146th Avenue, Ham Lake, MN 55304, (US)
JOHNSON, Gregory, R., 1505 Ferndale Avenue, Fridley, MN 55432, (US)
REINARTS, Timothy, J., 9081 167th Lane N.W., Ramsey, MN 55303, (US)
SUN, Ting, 2761 Hodges Lane, Mounds View, MN 55112, (US)
LEGAL REPRESENTATIVE:
Beresford, Keith Denis Lewis et al (28273), BERESFORD & Co. High Holborn 2-5 Warwick Court, London WC1R 5DJ, (GB)
PATENT (CC, No, Kind, Date): EP 791263 A1 970827 (Basic)
EP 791263 B1 010711
WO 9615612 960523
APPLICATION (CC, No, Date): EP 95939959 951109; WO 95US14829 951109
PRIORITY (CC, No, Date): US 338340 941110
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
INTERNATIONAL PATENT CLASS: H04M-003/38; H04M-001/66; H04L-029/06; H04M-001/57
CITED PATENTS (EP B): EP 510411 A; EP 581528 A; WO 93/11643 A; CA 2104701 A ; GB 2260670 A; GB 2268663 A
CITED REFERENCES (EP B):
PATENT ABSTRACTS OF JAPAN vol. 15 no. 397 (E-1120) ,8 October 1991 & JP,A,03 162052 (FUJITSU LTD) 12 July 1991,;
NOTE:
No A-document published by EPO
LEGAL STATUS (Type, Pub Date, Kind, Text):

Grant:	010711	B1	Granted patent
Application:	960821	A	International application (Art. 158(1))
Lapse:	030226	B1	Date of lapse of European Patent in a contracting state (Country, date): AT 20010711, DE 20011012, MC 20011109, NL 20010711, PT 20011011, SE 20011011,
Oppn None:	020703	B1	No opposition filed: 20020412
Lapse:	020410	B1	Date of lapse of European Patent in a contracting state (Country, date): AT 20010711, DE 20011012, SE 20011011,
Lapse:	020130	B1	Date of lapse of European Patent in a contracting state (Country, date): SE 20011011,
Lapse:	020626	B1	Date of lapse of European Patent in a contracting state (Country, date): AT 20010711, DE 20011012, PT 20011011, SE

		20011011,
Lapse:	021023 B1	Date of lapse of European Patent in a contracting state (Country, date): AT 20010711, DE 20011012, MC 20011109, PT 20011011, SE 20011011,
Application:	970827 A1	Published application (Alwith Search Report ;A2without Search Report)
Examination:	970903 A1	Date of filing of request for examination: 970430
Examination:	981230 A1	Date of despatch of first examination report: 981116

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200128	817
CLAIMS B	(German)	200128	727
CLAIMS B	(French)	200128	954
SPEC B	(English)	200128	21224
Total word count - document A			0
Total word count - document B			23722
Total word count - documents A + B			23722

...SPECIFICATION after the first ring, since most caller ID carriers encode the caller ID information using **frequency shift keying** transmission after the first telephone **ring** and **before** the second telephone **ring** . The caller ID decoder is connected to the telephone line (without answering the call) using...

16/5,K/4 (Item 4 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00638540
System and method to identify the terminating directory number at the customer premises.
System und Verfahren zur Identifizierung der Anschlussrufnummer im Teilnehmerbereich.
Système et methode pour identifier le numero d'annuaire de terminaison dans la region d'abonne.
PATENT ASSIGNEE:
AT&T Corp., (589370), 32 Avenue of the Americas, New York, NY 10013-2412, (US), (applicant designated states: AT;BE;CH;DE;ES;FR;GB;IT;LI;NL;SE)
INVENTOR:
Ardon, Menachem Tsur, 7S430 Donwood Trails Drive, Naperville, Illinois 60540, (US)
LEGAL REPRESENTATIVE:
Johnston, Kenneth Graham et al (32381), AT&T (UK) Ltd. 5 Mornington Road, Woodford Green Essex, IG8 OTU, (GB)
PATENT (CC, No, Kind, Date): EP 619670 A1 941012 (Basic)
EP 653869 A1 950517
APPLICATION (CC, No, Date): EP 94301278 940223;
PRIORITY (CC, No, Date): US 26919 930305; US 26952 930305
DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; IT; LI; NL; SE
INTERNATIONAL PATENT CLASS: H04M-009/00; H04M-003/42; H04M-009/02; H04M-003/50; H04Q-005/02; H04M-001/72; H04M-003/46; H04M-003/54; H04M-001/65;

ABSTRACT EP 653869 A1
A telecommunication network having a switching system (1) connected to a called station by a line that provides notification to a called party of information relating to an incoming call. This information generally consists of the called number, but may also include an extension or other code. The called party identification is delivered to the called telephone station set during the silent period after ringing, or,

advantageously, before ringing starts. A signal (e.g., FSK) is sent to the called telephone station set shortly before the ringing signal is sent to the called station. A converter (210) at the customer premises receives the FSK signal and demodulates it. A control unit connected to the converter then causes the called DN to be displayed, may cause a distinctive ring to be made, or take other action depending upon its program. (see image in original document)

ABSTRACT WORD COUNT: 145

LEGAL STATUS (Type, Pub Date, Kind, Text):

Refusal:	010926	A1 Date European patent application was refused: 20010505
Application:	941012	A1 Published application (A1with Search Report ;A2without Search Report)
*Search Report:	950201	A1 Separate publication of European or Intl search report (change)
*Search Report:	950405	A Separate publication of European or Intl search report (change)
*Application:	950405	A Date and kind of publication of European patent application (change)
Deleted:	950405	A Deletion
Application:	950517	A1 Published application (A1with Search Report ;A2without Search Report)
Examination:	951227	A1 Date of filing of request for examination: 951102
Examination:	990818	A1 Date of dispatch of the first examination report: 19990706

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	1289
SPEC A	(English)	EPAB95	8086
Total word count - document A			9375
Total word count - document B			0
Total word count - documents A + B			9375

...SPECIFICATION describing this service. When a call is connected to line 13 of telephone 25, an **FSK** signal (indicating the DN of telephone 23) is sent and decoded by display 39. In...

...manner, the customer of telephone 25 can determine to whom the call was originally directed, **prior** to the first **ring** and answer the telephone accordingly.

A further exemplary embodiment of this invention may be seen...the user pressing one of the keys 418.

FSK converter 420 is connected to tip- **ring** pair 400 **before** switch hook 404, so that it may receive **FSK** signals while switch hook 404 is in the onhook position. **FSK** converter 420 receives **FSK** signals and translates the signals into computer-usable form. **FSK** converter 420 then delivers the digits to microprocessor 410.

To continue the example from FIG...

16/5,K/5 (Item 5 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

00601215

Information display provided to calling party

Informationsanzeige an einem anrufenden Gerat

Information d'affichage delivree a un appareil appelant

PATENT ASSIGNEE:

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INVENTOR:

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LEGAL REPRESENTATIVE:
Watts, Christopher Malcolm Kelway, Dr. et al (37391), Lucent Technologies (UK) Ltd, 5 Mornington Road, Woodford Green Essex, IG8 0TU, (GB)
PATENT (CC, No, Kind, Date): EP 590862 A2 940406 (Basic)
EP 590862 A3 951025
EP 590862 B1 011114
APPLICATION (CC, No, Date): EP 93307493 930922;
PRIORITY (CC, No, Date): US 953437 920929
DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; IT; LI; NL; SE
INTERNATIONAL PATENT CLASS: H04M-003/42; H04Q-011/04
CITED PATENTS (EP B): EP 344672 A; WO 85/00487 A; DE 3705554 A; GB 2196513 A; US 5119415 A
CITED REFERENCES (EP B):
AT & T TECHNICAL JOURNAL, vol. 70, no. 5, October 1991 SHORT HILLS US, pages 27-35, XP 000244601 RUBINSTEIN ET AL. 'Corporate networking applications'
PATENT ABSTRACTS OF JAPAN vol. 16 no. 435 (E-1263) ,10 September 1992 & JP-A-04 151957 (RIKOSU) 25 May 1992,
COMPUTER NETWORKS AND ISDN SYSTEMS, vol. 16, no. 3, January 1989 AMSTERDAM NL, pages 187-196, XP 000004628 TURMAN ET AL. 'Bell Operating Company packet interfaces between networks and subnets';

ABSTRACT EP 590862 A2
This invention relates to methods of providing information for display at a calling party telecommunications station or at an idle station. Two signaling arrangements are described, the D-channel of an Integrated Services Digital Network (ISDN) channel, and an in-band frequency shift key signal. The information that is displayed is related to the called party (such as information identifying that party), the carrier of the conversation, or represents general information (an emergency announcement). (see image in original document)
ABSTRACT WORD COUNT: 79
NOTE:
Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Grant:	011114 B1	Granted patent
Examination:	20000322 A2	Date of dispatch of the first examination report: 20000203
Lapse:	030226 B1	Date of lapse of European Patent in a contracting state (Country, date): AT 20011114, BE 20011114, CH 20011114, LI 20011114, NL 20011114, SE 20020214,
Lapse:	030205 B1	Date of lapse of European Patent in a contracting state (Country, date): BE 20011114, CH 20011114, LI 20011114, SE 20020214,
Oppn None:	021106 B1	No opposition filed: 20020815
Lapse:	020626 B1	Date of lapse of European Patent in a contracting state (Country, date): SE 20020214,
Lapse:	030102 B1	Date of lapse of European Patent in a contracting state (Country, date): CH 20011114, LI 20011114, SE 20020214,
Lapse:	030219 B1	Date of lapse of European Patent in a contracting state (Country, date): BE 20011114, CH 20011114, LI 20011114, NL 20011114, SE 20020214,
Application:	940406 A2	Published application (A1with Search Report

;A2without Search Report)
*Assignee: 940622 A2 Applicant (name, address) (change)
*Assignee: 941005 A2 Applicant (transfer of rights) (change): AT&T Corp. (589370) 32 Avenue of the Americas New York, NY 10013-2412 (US) (applicant designated states: AT;BE;CH;DE;ES;FR;GB;IT;LI;NL;SE)
Search Report: 951025 A3 Separate publication of the European or International search report
Examination: 960612 A2 Date of filing of request for examination: 960412
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	809
CLAIMS B	(English)	200146	1131
CLAIMS B	(German)	200146	1073
CLAIMS B	(French)	200146	1282
SPEC A	(English)	EPABF2	4349
SPEC B	(English)	200146	4434
Total word count - document A			5159
Total word count - document B			7920
Total word count - documents A + B			13079

...SPECIFICATION customer receives a frequency shift keyed (FSK) signal for controlling an ICLID display device, either **prior** to receiving audible **tone** , or between bursts of audible tone when the called party is being alerted (the audible tone may interfere with **FSK** signaling), or when the telephone station is idle or in the talking state.
In accordance...

...SPECIFICATION used only for displaying the incoming number. The calling customer receives a frequency shift keyed (**FSK**) signal for controlling an ICLID display device, either **prior** to receiving audible **tone** , or between bursts of audible tone when the called party is being alerted (the audible tone may interfere with **FSK** signaling), or when the telephone station is idle or in the talking state.
In accordance...

16/5,K/6 (Item 6 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00436760
Tone spacing and power level monitoring for FSK lightwave systems
Uberwachung von Tonabstand und Leistungspegel bei FSK-Lichtwellensystemen
Controlement de l'espacement de tonalite et du niveau de puissance pour systemes a ondes lumineuses a signaux modules en sauts de frequence
PATENT ASSIGNEE:
AT&T Corp., (589370), 32 Avenue of the Americas, New York, NY 10013-2412, (US), (applicant designated states: DE;FR;GB;NL)
INVENTOR:
Tzeng, Liang D., 13 Trails End, Fogelsville, Pennsylvania 18051, (US)
LEGAL REPRESENTATIVE:
Buckley, Christopher Simon Thirsk et al (28912), Lucent Technologies, 5 Mornington Road, Woodford Green, Essex IG8 0TU, (GB)
PATENT (CC, No, Kind, Date): EP 434235 A2 910626 (Basic)
EP 434235 A3 921125
EP 434235 B1 960724
APPLICATION (CC, No, Date): EP 90312787 901123;
PRIORITY (CC, No, Date): US 452082 891218
DESIGNATED STATES: DE; FR; GB; NL
INTERNATIONAL PATENT CLASS: H04L-027/12; H04B-010/14;
CITED PATENTS (EP A): GB 2168561 A; GB 2168561 A; US 3167712 A
CITED REFERENCES (EP A):

IEEE JOURNAL OF QUANTUM ELECTRONICS vol. QE-15, no. 10, October 1979, NEW YORK, US pages 1157 - 1160; STOLEN: 'Polarization effects in fiber Raman and Brillouin lasers'
PATENT ABSTRACTS OF JAPAN vol. 10, no. 104 (E-397)(2161) 19 April 1986;

ABSTRACT EP 434235 A2
Apparatus and method are disclosed for controlling the tone spacing (2(omega)(sub(d))) and output power level in an FSK lightwave transmitter (12). An arrangement (22) is utilized which splits a tapped-off portion S(t) of the output data stream X(t) into two essentially equal components (S(sub 1),S(sub 2)). A first component (S(sub 1)) is then delayed and scrambled (polarization state) (by 24,28,29) with respect to the second component (S(sub 2)). Self-heterodyning of the two signals results in forming a signal V(t) at the beat frequency, or tone spacing value. By comparing this beat frequency with a predetermined tone spacing value, (omega)(sub(ts)), adjustments may be made to the transmitter to maintain the desired tone spacing value. The self-heterodyned signal will also contain a component indicative of the data signal power level and may be utilized to adjust the transmitting device so as to maintain a constant power. (see image in original document)
ABSTRACT WORD COUNT: 153

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application:	910626	A2	Published application (A1with Search Report ;A2without Search Report)
Search Report:	921125	A3	Separate publication of the European or International search report
Examination:	930728	A2	Date of filing of request for examination: 930513
*Assignee:	940622	A2	Applicant (name, address) (change)
Examination:	950329	A2	Date of despatch of first examination report: 950214
Grant:	960724	B1	Granted patent
Oppn None:	970716	B1	No opposition filed

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB96	410
CLAIMS B	(German)	EPAB96	389
CLAIMS B	(French)	EPAB96	504
SPEC B	(English)	EPAB96	2538
Total word count - document A			0
Total word count - document B			3841
Total word count - documents A + B			3841

...SPECIFICATION of controlling tone spacing in the output data signal of an FSK lightwave transmitter.
In **FSK** (frequency-shift-keyed) transmission systems, the carrier frequency (omega)(sub(s)) is modulated by a...

...i.e., 2(omega)(sub(d))) between these two transmitted frequencies. In conventional microwave electronic **FSK** systems, tone-spacing will remain relatively constant. However, in lightwave **FSK** systems, the carrier frequency may experience drift in response to a number of factors, including temperature, age, and data rate. Therefore, the tone spacing in lightwave **FSK** systems may also drift The performance of the receiver in lightwave **FSK** systems, in terms of recovering the transmitted data signal, may then be affected by any change in **tone** spacing.
One **prior** art technique for providing control of tone spacing is disclosed in U. S. Patent 4...

16/5,K/7 (Item 1 from file: 349)

00832168 **Image available**

METHOD, APPARATUS, AND SYSTEM FOR USING TCP/IP AS THE TRANSPORT LAYER FOR SCREEN PHONES

PROCEDE, APPAREIL ET SYSTEME POUR UTILISER TCP/IP COMME COUCHE DE TRANSPORT POUR TELEPHONES A ECRAN

Patent Applicant/Assignee:
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Legal Representative:
SAVAGE Michael G (et al) (agent), Burns, Doane, Swecker & Mathis, L.L.P., P.O. Box 1404, Alexandria, VA 22313-1404, US,

Patent and Priority Information (Country, Number, Date):
Patent: WO 200165787 A1 20010907 (WO 0165787)
Application: WO 2001US6330 20010228 (PCT/WO US0106330)
Priority Application: US 2000185633 20000229; US 2001796588 20010228
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04L-012/66
International Patent Class: H04L-012/64
Publication Language: English
Filing Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 8693

English Abstract
This invention relates to the field of telecommunications using TCP/IP as the transport layer protocol. More particularly, this invention is a method and apparatus for sending application information from an ADSI server to an ADSI compatible device using TCP/IP. With reference to Fig. 5, application information (207) is encapsulated according to ADSI message layer (105) and datalink layer (103) protocol specifications. The resulting bit stream (513) is passed to a socket interface (511) to form a TCP/IP bit stream (515) of application information. The TCP/IP bit stream (515) is sent through a TCP/IP network from one ADSI compatible device (501) to another ADSI compatible device (503). The application information is processed in the same manner, but in the opposite order at the receiving device (503).

French Abstract
L'invention releve du domaine des telecommunications utilisant TCP/IP comme protocole de couche de transport. Elle concerne notamment un procede et un appareil pour envoyer des informations d'application depuis un serveur ADSI vers un dispositif compatible ADSI au moyen de TCP/IP. D'apres la fig. 5, des informations d'application (207) sont encapsulees selon les specifications du protocole de couche de messagerie ADSI (105) et de couche de liaison de donnees (103). Le flux binaire ainsi obtenu (513) est envoye a une interface de connecteur logiciel (511) pour former un flux binaire TCP/IP (515) des informations d'application. Le flux binaire TCP/IP (515) est envoye par un reseau TCP/IP depuis un dispositif compatible ADSI (501) a un autre dispositif compatible ADSI (503). Les informations d'application sont traitees de la meme maniere mais dans

l'ordre inverse dans le dispositif recepteur (503).

Legal Status (Type, Date, Text)
Publication 20010907 A1 With international search report.

Fulltext Availability:
Detailed Description

Detailed Description
... visual formats. With the modified physical layer 507, the signaling information, which 1 0 was **previously** transmitted using DTMF **tones** , ADSI protocol information, which was previously transmitted using **FSK** , and the voice information are converted into TCP/IP application layer data 513.

According to...

16/5,K/8 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00786021
SYSTEM AND METHOD FOR THE SYNCHRONIZATION AND DISTRIBUTION OF TELEPHONY TIMING INFORMATION IN A CABLE MODEM NETWORK
SYSTEME ET PROCEDE DESTINE A LA SYNCHRONISATION ET A LA DISTRIBUTION D'INFORMATIONS DE SYNCHRONISATION TELEPHONIQUES SUR UN RESEAU MODEM CABLE
Patent Applicant/Assignee:
BROADCOM CORPORATION, 16215 Alton Parkway, Irvine, CA 92618-3616, US, US (Residence), US (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
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DENNEY Lisa V, 16215 Alton Parkway, Irvine, CA 92618-3616, US, US (Residence), US (Nationality), (Designated only for: US)
Legal Representative:
GELFOUND Craig A (agent), Christie, Parker & Hale, LLP, P.O. Box 7068, Pasadena, CA 91109-7068, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200119005 A1 20010315 (WO 0119005)
Application: WO 2000US24405 20000905 (PCT/WO US0024405)
Priority Application: US 99152254 19990903
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04J-003/06
International Patent Class: H04N-007/173; H04L-012/28
Publication Language: English
Filing Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 112078

English Abstract
A method for synchronizing clocks in a packet transport network. The method comprises, receiving an external network clock at a central packet network node and transmitting timing information to a plurality of packet network devices, the timing information based upon the external network

clock. The method further comprises, transmitting and receiving data that is synchronized to the timing information to a plurality of connected packet network devices. And finally, delivery of packets to an external interface via a packet network that contains data synchronized to the external network clock.

French Abstract
L'invention concerne un procede destine a synchroniser des horloges dans un reseau de transmission d'informations par paquets. Le procede consiste a recevoir l'horloge d'un reseau externe dans un noeud de reseau de paquet central et a transmettre les informations de synchronisation a une pluralite de dispositifs de reseaux de commutation par paquets, les informations de synchronisation etant basees sur l'horloge du reseau externe. Le procede consiste egalement a transmettre et a recevoir des donnees synchronisees avec les informations de synchronisation et a les transmettre a une pluralite de dispositifs de reseaux de commutation par paquets. Le procede consiste enfin a livrer des paquets a une interface externe via un reseau de paquets contenant des donnees synchronisees avec l'horloge du reseau externe.

Legal Status (Type, Date, Text)
Publication 20010315 A1 With international search report.
Publication 20010315 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.
Examination 20010705 Request for preliminary examination prior to end of 19th month from priority date

Fulltext Availability:
Detailed Description

Detailed Description
... to which the Timestamp in this message is applicable.

Timestamp 4 octets Timestamp of a **previously** transmitted Timestamp Report Message, corresponding to TSMSeqNum.

Frequency 2 octets Resolution of the timestamp and...

16/5,K/9 (Item 3 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00762762 **Image available**
PEER-TO-PEER DATA TRANSFER USING PRE-EXISTING CALLER ID CLASS FSK SIGNALING INFRASTRUCTURE
TRANSFERT DE DONNEES ENTRE HOMOLOGUES UTILISANT UNE INFRASTRUCTURE DE SIGNALISATION PAR FSK DE CLASSE D'IDENTIFICATEUR D'APPELANT PREEXISTANTE
Patent Applicant/Assignee:
CONEXANT SYSTEMS INC, 4311 Jamboree Road, Newport Beach, CA 92660-3095, US, US (Residence), US (Nationality)
Inventor(s):
BEAMISH Norman J, 2775 Mesa Verde Drive East, #R207, Costa Mesa, CA 92626, US
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Legal Representative:
SCHMELZER Troy M, Lyon & Lyon L.L.P., 633 West Fifth Street, Suite 4700, Los Angeles, CA 90071-2066, US
Patent and Priority Information (Country, Number, Date):
Patent: WO 200076187 A1 20001214 (WO 0076187)

Application: WO 2000US15010 20000601 (PCT/WO US0015010)
Priority Application: US 99328048 19990608
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04M-001/57
Publication Language: English
Filing Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 8996

English Abstract
A communications device configured to receive FSK-encoded CLASS caller ID information is also configured to exchange FSK-encoded data with a peer device over a channel previously established between the two devices. In one embodiment, the channel is a voice channel previously established between the two devices.

French Abstract
L'invention concerne un dispositif de communications concu pour recevoir des informations d'identificateur d'appelant de classe codees FSK, egalement concu pour echanger des donnees codees FSK avec un dispositif homologue par un canal deja etabli entre les deux dispositifs. Dans un mode de realisation, ledit canal est un canal vocal deja etabli entre les deux dispositifs.

Legal Status (Type, Date, Text)
Publication 20001214 A1 With international search report.
Publication 20001214 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.
Examination 20010315 Request for preliminary examination prior to end of 19th month from priority date

Fulltext Availability:
Detailed Description

Detailed Description
... 111. In the Type I service, a phone is equipped with a Frequency Shift Key (**FSK**) detector, a controller, and a display. When a call is placed to the phone, a SPCS server situated within the Public Switched Telephone Network (PSTN) activates a corresponding **FSK** generator also situated within the PSTN to transmit to the phone a **FSK** signal encoding the caller ID information. At the phone, as indicated in Figure 1, when a first ring is, detected, step I 00, the controller enables the **FSK** detector, step 102, which listens for a **FSK** signal. If a **FSK** signal is detected **before** the second **ring** , the Yes branch of decision point 104, it is demodulated to obtain the caller ID information. That information is then displayed, step 106. If, however, the **FSK** signal is not detected **before** the second **ring** , the No branch of decision point 104, the **FSK** detector is disabled, step 1 1 0.

In the Type 11 or Type III service...

16/5,K/10 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

March 26, 2003

00473192 **Image available**
TELEPHONE WITH RINGING SIGNAL SUPPRESSION FOR CERTAIN CALLERS
TELEPHONE EQUIPE D'UN DISPOSITIF DE NEUTRALISATION DU SIGNAL D'APPEL EMANANT DE CERTAINS APPELANTS

Patent Applicant/Assignee:
NORTHERN TELECOM LIMITED,
Inventor(s):
BLEILE Leonard George,

Patent and Priority Information (Country, Number, Date):
Patent: WO 9904544 A1 19990128
Application: WO 98CA222 19980312 (PCT/WO CA9800222)
Priority Application: US 97895102 19970716
Designated States: CA JP AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
Main International Patent Class: H04M-001/66
Publication Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 3360

English Abstract
A telephone apparatus for screening calls on the basis of messages containing message data, the messages being transmitted by a central office before a first ring burst is transmitted by the central office. The apparatus includes a messager receiver, a decoder, a ringer and a ringer controller. The message receiver is in communication with the central office line and is operable to receive a message while the telephone is on-hook. The decoder decodes the message to extract the message data from the message. The ringer is operable to sound an audible alarm when a telephone call is received and the ringer controller prevents the ringer from sounding in response to the first ring burst, when the message data satisfies a pre-defined condition.

French Abstract
On decrit un appareil de telephone qui permet a un central de filtrer les appels sur la base de messages contenant des donnees de message, puis a transmettre ces messages prealablement a la transmission d'une premiere rafale d'appel. L'appareil inclut un recepteur de messages, un decodeur, une sonnerie d'appel et une commande de la sonnerie d'appel. Le recepteur de messages communique avec la ligne de central et peut etre mis en oeuvre pour recevoir des messages pendant que le telephone est en position de repos. Le decodeur decode le message pour en extraire les donnees de message. La sonnerie d'appel peut etre mise en oeuvre pour emettre une alarme audible lorsqu'un appel telephonique est recu et, quand une certaine condition preetablie est remplie par les donnees de message, ladite commande empeche la sonnerie d'appel de sonner en reponse a la premiere rafale d'appel.

Fulltext Availability:
Detailed Description

Detailed Description
... to
screen messages containing message data, where the messages are transmitted by a central office **before** a first **ring** burst is received at the telephone.
is In this embodiment, the microprocessor is a Motorola...

...and second interrupt inputs 30 and 32 for receivi .ng a message signal from the **FSK** receiver 18 and for receiving a ring detect signal from the ring detector 24 respectively. The **FSK** receiver 18 is operable to provide to the microprocessor 12 via the I/0 port 14 digital

message data representing **FSK** messages it receives from a receive signal path 34 in the telephone. In this embodiment, the **FSK** receiver receives signals from the receive signal path 34 independently of whether or not the telephone is on-hook or off-hook. In other words, the **FSK** receiver 18 is always in communication with a central office line 36 connecting the telephone...

...independently of whether or not the telephone is on-hook or of f -hock. The **FSK** receiver thus acts as a message receiver in communication with the central office line, the...

...receiving a message while the telephone is on-hook or off-hook. In addition, the **FSK** -5 receiver acts as a decoder for decoding the message to extract message data from the **FSK** message.

The ring detector 24 is also connected to the receive signal path to receive...60, the mark burst 62 and pre-ring FSK message 64 followed by a pre- **ring** silence period 66, **before** the first **ring** burst 50 is transmitted. Using this signalling format, the message response algorithm directs the microprocessor...defined data includes telephone numbers in the block out list.

By receiving an FSK message **prior** to the first **ring** burst, the ringer 22 can be disabled where the **FSK** data matches an entry in a block out list. Thus, the user need not hear...

16/5,K/11 **(Item 5 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00424633 **Image available**
STRUCTURE AND METHOD FOR CONTROLLING MULTIPLE CUSTOMER PREMISES EQUIPMENTS ON A SUBSCRIBER'S TELEPHONE LINE
STRUCTURE ET PROCEDE SERVANT A COMMANDER DES EQUIPEMENTS MULTIPLES D'INSTALLATIONS CLIENTS SUR UNE LIGNE TELEPHONIQUE D'ABONNE
Patent Applicant/Assignee:
CIDCO INCORPORATED,
Inventor(s):
LEGGITT Richard I,
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ANGLIKOWSKI Ron,
LEWIS Harry W,
HACKERD Craig W,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9815095 A1 19980409
Application: WO 97US17307 19971001 (PCT/WO US9717307)
Priority Application: US 96725794 19961003
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Main International Patent Class: H04M-001/56
International Patent Class: H04M-15:06
Publication Language: English
Fulltext Availability:
Detailed Description
Claims

Fulltext Word Count: 14963

English Abstract
A structure and method of controlling a plurality of customer premises equipments (CPEs) coupled to a single premises telephone line (10). The CPEs can be Type III GMEC CPE (1), Type II Universal GMEC CPE (2), and/or Type II Satellite GMEC CPE (3). Each of the CPEs includes a signal generator and a signal detector whch allows the CPEs to communicate using out-of-band signalling protocol. By communicating in this manner, the operation of the plurality of CPEs can be coordinated to implement various functions, including master/slave arbritation, multiple extension capability, synchronized flash, remote call record management, and management of shared resources.

French Abstract
Structure et procede servant a commander une pluralite d'equipements d'installations clients (CPE) couples a une seule ligne telephonique (10) de l'installation. Ces CPE peuvent presenter une capacite d'extension multiple generalisee (GMEC) de type III (1), GMEC a polyvalence de type II (2) ou GMEC a satellite de type II (3). Chacun de ces CPE comprend un generateur de signaux et un detecteur de signaux lui permettant de communiquer au moyen d'un protocole de signalisation hors de la bande. Ce type de communication permet de coordonner le fonctionnement de la pluralite de CPE afin de mettre en service differentes fonctions, y compris arbitrage entre maitre et esclave, capacite d'extension multiple, clignotement synchronise, gestion d'enregistrement d'appel a distance et gestion de ressources partagees.

Fulltext Availability:
Detailed Description

Detailed Description
... condition, and an incoming call is received, the central office will send CID information in **FSK** format between the first and second ring signals. The master GMEC CPE detects the ring...

...of master GMEC CPE causes its signal generator 202 to broadcast an out-of-band **RING** instruction, as **previously** described herein, on the telephone line. The master GMEC CPE generates a RING 2 0...

16/5,K/12 (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00235364
OPTIMIZED CLOCK RECOVERY FOR AN MSK SYSTEM
RECUPERATION OPTIMALISEE DE SIGNAL D'HORLOGE POUR UN SYSTEME DE MANIPULATION PAR DEPLACEMENT MINIMAL (MSK)
Patent Applicant/Assignee:
MOTOROLA INC,
Inventor(s):
WEISS Karl R,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9309625 A1 19930513
Application: WO 92US9078 19921021 (PCT/WO US9209078)
Priority Application: US 91963 19911031
Designated States: JP KR AT BE CH DE DK ES FR GB GR IE IT LU MC NL SE
Main International Patent Class: H04L-027/10
Publication Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 3105

March 26, 2003

English Abstract
A clock recovery system for radio communication inserts a synchronization signal (102) at a frequency of 1/2 the baud rate, at the spectral null of an MSK data signal (108), which is also at 1/2 the baud rate, for later retrieval. Hence, in a transmitter-encoder (100), an MSK generator (106) generates an MSK digitally modulated data signal (108e) having a baud rate and a spectral null at 1/2 the baud rate. A synchronization clock generator (104) generates a synchronization signal (102e) having a frequency at 1/2 the baud rate. This frequency at 1/2 the baud rate corresponds to the spectral null of the MSK digitally modulated data signal (108e). A transmitter transmits the synchronization signal (102e), at the spectral null of the data signal (108e), together (112) with the MSK digitally modulated data signal (108e). On the other end, a receiver-decoder (200) recovers (214) the synchronization signal (102d) and demodulates (212) the MSK digitally modulated data signal (108d) as a function of the synchronization signal (102d).

French Abstract
Un systeme de recuperation de signal d'horloge, pour un systeme de radiocommunications, introduit un signal de synchronisation (102) a une frequence equivalant a 1/2 de debit en bauds, au niveau du point de puissance spectrale nulle d'un signal de donnees (108) a manipulation par deplacement minimal (MSK), qui equivaut egalement a 1/2 du debit en bauds, afin de recuperer ulterieurement le signal. Ainsi, dans un emetteur-codeur (100), un generateur de signal MSK (106) genere un signal de donnees (108e) MSK numeriquement module dont le debit en bauds et le point de puissance spectrale nulle equivalent a 1/2 du debit en bauds. Un generateur (104) de signal de synchronisation genere un signal de synchronisation (102e) dont la frequence equivaut a 1/2 du debit en bauds. Cette frequence correspond au point de puissance spectrale nulle du signal de donnees MSK numeriquement module (108e). Un emetteur transmet le signal de synchronisation (102e), au niveau du point de puissance spectrale nulle du signal de donnees (108e) en meme temps (112) que le signal de donnees MSK numeriquement module (108e). A l'autre bout, un recepteur-decodeur (200) recupere (214) le signal de synchronisation (102d) et demodule (212) le signal de donnees MSK numeriquement module (108d) en fonction du signal de synchronisation (102d).

Fulltext Availability:
Detailed Description

Detailed Description
... bit is referred to as a bit boundary. An MSK signal is a continuous-phase- **frequency** @- **shift** - **keying** (CPFSK). This implies that the phase of an MSK signal is continuous across the bit...
...tones is continuous, i.e., a signalling tone begins at the same phase that the **previous** signalling **tone** ended with. In the preferred embodiment of the instant invention, the modulation technique is comprised...

19/5,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00809263
Telephone answering machine with speech recognition
Telefonanrufbeantworter mit Spracherkennung
Repondeur telephonique avec reconnaissance de la parole
PATENT ASSIGNEE:
AT&T IPM Corp., (1907680), 2333 Ponce de Leon Boulevard, Coral Gables, Florida 33134, (US), (applicant designated states: DE;ES;FR;GB;IT;NL)
INVENTOR:
Argade, Pramod Vasant, 1475 Promise Lane, Allentown, Pennsylvania 18106, (US)
LEGAL REPRESENTATIVE:
Johnston, Kenneth Graham et al (32381), Lucent Technologies (UK) Ltd, 5 Mornington Road, Woodford Green Essex, IG8 OTU, (GB)
PATENT (CC, No, Kind, Date): EP 751658 A2 970102 (Basic)
EP 751658 A3 990623
APPLICATION (CC, No, Date): EP 96304516 960618;
PRIORITY (CC, No, Date): US 496372 950629
DESIGNATED STATES: DE; ES; FR; GB; IT; NL
INTERNATIONAL PATENT CLASS: H04M-001/65; H04M-001/66;

ABSTRACT EP 751658 A2
A telephone answering machine (104) and method of use utilizes speech recognition (106) to identify a caller from a pre-defined list (111) of possible callers. The list may be generated by various input techniques, including a spoken voice at the called party's location, and keyboard or graphical input techniques. If the caller is identified as being on the list (203), the machine allows the call to progress along a first sequence, which includes ringing the called phone (204). If the called phone does not answer (205), the first sequence may provide for responding with a customized message (212) for the calling party. If the caller is not identified as being on the list, the machine allows the call to progress along a second sequence, which includes responding with a standard recorded message (207). In either case, the caller is typically allowed to record a message for the called party (209). Additional pre-defined lists may be provided, as for determining the context of a call.
ABSTRACT WORD COUNT: 165

LEGAL STATUS (Type, Pub Date, Kind, Text):
Examination: 030115 A2 Date of dispatch of the first examination report: 20021203
Examination: 20000209 A2 Date of request for examination: 19991210
Application: 970102 A2 Published application (Alwith Search Report ;A2without Search Report)
Search Report: 990623 A3 Separate publication of the European or International search report
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	374
SPEC A	(English)	EPAB97	3180
Total word count - document A			3554
Total word count - document B			0
Total word count - documents A + B			3554

SPECIFICATION Background of the Invention

Description of the Prior Art
Telephone answering machines typically allow for the playback of a recorded message from the called party...

...to utilize a private code that is entered by the calling party on a touch- **tone** pad **before** allowing access to the **called party** . However, this requires **prior** arrangements between the called and calling parties that may not be convenient in many cases...
...or misplaced codes and various other problems. It is also known to use the incoming **phone** number, or alternatively voice recognition, to verify a caller's identity. These techniques are typically implemented in **digital** systems by various combinations of hardware and software. However, voice recognition may require training the...

19/5,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00798909
Service and information management system for a telecommunications network
Dienst- und Informationsverwaltungssystem fur ein Telekommunikationsnetzwerk
Systeme de gestion de services et d'informations pour un reseau de telecommunication
PATENT ASSIGNEE:
AT&T IPM Corp., (1907680), 2333 Ponce de Leon Boulevard, Coral Gables, Florida 33134, (US), (applicant designated states: DE;FR;GB;IT;NL;SE)
INVENTOR:
Bhusri, Gurcharan S., 9 Longview Drive, Holmdel, NJ 07733, (US)
LEGAL REPRESENTATIVE:
Harding, Richard Patrick (41293), Marks & Clerk, 4220 Nash Court Oxford Business Park South, Oxford OX4 2RU, (GB)
PATENT (CC, No, Kind, Date): EP 743778 A2 961120 (Basic)
EP 743778 A3 980923
APPLICATION (CC, No, Date): EP 96303415 960515;
PRIORITY (CC, No, Date): US 442529 950516
DESIGNATED STATES: DE; FR; GB; IT; NL; SE
INTERNATIONAL PATENT CLASS: H04M-003/22; H04Q-003/00; H04M-007/00; H04M-003/36;

ABSTRACT EP 743778 A2
A system for service control and operations for a telecommunications network communicates with a plurality of interconnected telecommunications network elements via a switching and signaling subsystem. The system provides and controls the various functions of the telecommunications network, such as call processing and routing, automatic fault detection and correction, providing services to customers in an interactive manner, fraud detection and control, identification of patterns of abuse of the network, collecting data regarding call activity at each network element, and producing a record of each call placed within the network. (see image in original document)

ABSTRACT WORD COUNT: 114

LEGAL STATUS (Type, Pub Date, Kind, Text):

Examination:	021016 A2	Date of dispatch of the first examination report: 20020903
Application:	961120 A2	Published application (A1with Search Report ;A2without Search Report)
Change:	021120 A2	Legal representative(s) changed 20020927
Change:	980211 A2	Representative (change)
*Assignee:	980211 A2	Applicant (transfer of rights) (change): AT&T Corp. (589370) 32 Avenue of the Americas New York, NY 10013-2412 (US) (applicant designated states: DE;FR;GB;IT;NL;SE)
*Assignee:	980211 A2	Previous applicant in case of transfer of rights (change): AT&T IPM Corp. (1907680) 2333 Ponce de Leon Boulevard Coral Gables, Florida

33134 (US) (applicant designated states: DE;FR;GB;IT;NL;SE)
Search Report: 980923 A3 Separate publication of the European or International search report
Examination: 990331 A2 Date of filing of request for examination: 990128
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	2761
SPEC A	(English)	EPAB96	10416
Total word count - document A			13177
Total word count - document B			0
Total word count - documents A + B			13177

...SPECIFICATION measure the time it takes a calling party who has dialed the number of a **called party** to hear a **ring** -back **tone** indicating that the **called party** 's **phone** is ringing.
As discussed **previously** in connection with FIG. 4, each information packet 80 forwarded to the operations element from...

19/5,K/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00798847
Service and information management system for a telecommunications network
Dienst- und Informationsverwaltungssystem fur ein Telekommunikationsnetzwerk
Systeme de gestion de services et d'informations pour un reseau de telecommunication
PATENT ASSIGNEE:
AT&T IPM Corp., (1907680), 2333 Ponce de Leon Boulevard, Coral Gables, Florida 33134, (US), (applicant designated states: DE;FR;GB;IT;NL;SE)
INVENTOR:
Bhusri, Gurcharan S., 9 Longview Drive, Holmdel, New Jersey 07733, (US)
LEGAL REPRESENTATIVE:
Johnston, Kenneth Graham (32381), Lucent Technologies (UK) Ltd, 5 Mornington Road, Woodford Green Essex, IG8 OTU, (GB)
PATENT (CC, No, Kind, Date): EP 743779 A2 961120 (Basic)
APPLICATION (CC, No, Date): EP 96303203 960508;
PRIORITY (CC, No, Date): US 442526 950516
DESIGNATED STATES: DE; FR; GB; IT; NL; SE
INTERNATIONAL PATENT CLASS: H04M-003/36; H04Q-003/00; H04M-003/22; H04M-007/00;
ABSTRACT EP 743779 A2
A system for service control and operations for a telecommunications network. In particular, an architecture and method for a service control and operations element system. The system communicates with a plurality of interconnected telecommunications network elements via a switching and signaling subsystem. The system provides and controls the functions of the telecommunications network, including a method of measuring delay between the time a customer dials a phone number of a called party and the time the customer hears a ringback tone indicating that the called party was alerted to the call, a method of synchronizing clocks located at individual network elements with a centralized time source, and a method of time-of-day clock surveillance. (see image in original document)
ABSTRACT WORD COUNT: 140

LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 961120 A2 Published application (A1with Search Report ;A2without Search Report)
Withdrawal: 971029 A2 Date on which the European patent application was withdrawn: 970821

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	1579
SPEC A	(English)	EPAB96	10972
Total word count - document A			12551
Total word count - document B			0
Total word count - documents A + B			12551

...SPECIFICATION measure the time it takes a calling party who has dialed the number of a **called party** to hear a **ring** -back **tone** indicating that the **called party** 's **phone** is ringing.
As discussed **previously** in connection with FIG. 4, each information packet 80 forwarded to the operations element from...

19/5,K/4 (Item 4 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00795866
Automatic still image transmission upon call connection
Automatische Standbildubertragung nach einer Rufverbindung
Transmission automatique d'image fixe sur connexion d'appel
PATENT ASSIGNEE:
AT&T IPM Corp., (1907680), 2333 Ponce de Leon Boulevard, Coral Gables, Florida 33134, (US), (applicant designated states: DE;FR;GB)
INVENTOR:
Partridge, B. Waring, III, 900 Holland Road, Far Hills, New Jersey 07931, (US)
LEGAL REPRESENTATIVE:
Buckley, Christopher Simon Thirsk et al (28912), Lucent Technologies, 5 Mornington Road, Woodford Green, Essex IG8 0TU, (GB)
PATENT (CC, No, Kind, Date): EP 741484 A2 961106 (Basic)
APPLICATION (CC, No, Date): EP 96302829 960423;
PRIORITY (CC, No, Date): US 434079 950503
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: H04N-001/32; H04N-007/26; H04M-011/06;

ABSTRACT EP 741484 A2
The present disclosure describes a system and method for selecting and transmitting a still image in a telephone network (20,25). A series of images is stored in at least one storage unit (50) coupled to the network, each image associated with a particular customer (e.g. 10) in the network. Upon the placement of a call, the system will automatically select and transmit the calling party's image to the called party's video telephone or terminal (80) prior to or during the ringing sequence, or after the called party has answered. (see image in original document)
ABSTRACT WORD COUNT: 108

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application:	961106 A2	Published application (A1with Search Report ;A2without Search Report)
Withdrawal:	970108 A2	Date on which the European patent application was withdrawn: 961118

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	653
SPEC A	(English)	EPAB96	3378
Total word count - document A			4031
Total word count - document B			0
Total word count - documents A + B			4031

...SPECIFICATION a customer in the network.
In one embodiment, upon detection of an initiated call, the **telecommunication** system accesses the image node, selects an image associated with the calling party, and transmits the selected image to the called party, as appropriate. The transmission occurs **before** , during or after the **called party** 's terminal has begun to **ring** . In this way, the image appears (or at least begins to appear) at the called ...

19/5,K/5 (Item 5 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00776075
Transparent data call progress between the fixed and the cellular network
Anruffortschnittsuberwachung fur Datenubertragung zwischen festem und zellularem Netzwerk
Progression d'appel transparente pour la transmission de donnees entre un reseau fixe et un cellulaire
PATENT ASSIGNEE:
AT&T IPM Corp., (1907680), 2333 Ponce de Leon Boulevard, Coral Gables, Florida 33134, (US), (applicant designated states: DE;ES;FR;GB;IT)
INVENTOR:
Exner, James Walter, 3113 Landershire, Plano, Texas 75023, (US)
Jung, Edward, 1 Quarry Terrace, West Orange, New Jersey 07052, (US)
Hitchcock, Lynn Wesley, 1401 Mayfield, Garland, Texas 75041, (US)
Matthews, Craig, 219 Riveredge Road, Tinton Falls, New Jersey 07724, (US)
LEGAL REPRESENTATIVE:
Jehan, Robert et al (72663), Williams, Powell & Associates, 34 Tavistock Street, London WC2E 7PB, (GB)
PATENT (CC, No, Kind, Date): EP 725550 A2 960807 (Basic)
EP 725550 A3 971203
APPLICATION (CC, No, Date): EP 96300465 960124;
PRIORITY (CC, No, Date): US 380872 950130
DESIGNATED STATES: DE; ES; FR; GB; IT
INTERNATIONAL PATENT CLASS: H04Q-007/24; H04Q-007/22;

ABSTRACT EP 725550 A2
A cellular modem pool (405-1 -- 405-N) provides call progress information to a calling party during call setup. In particular, the cellular modem pool includes a coupling means (430-1 -- 430-N), which communicates any signals between the cellular-side of the cellular data connection and the PSTN-side of the cellular data connection during call setup. This allows the calling party to hear the call progress on the called party side of the data call. In addition, the cellular modem pool (405-1 -- 405-N) monitors the signals for a data signal provided by the called party, e.g., a predefined answer tone. Once the answer tone is detected, the cellular modem pool opens the connection provided by the coupling means (430-1 -- 430-N) and processes the respective signals on the cellular-side and the PSTN-side of the cellular modem pool. (see image in original document)
ABSTRACT WORD COUNT: 159

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application:	960807 A2	Published application (A1with Search Report ;A2without Search Report)
Change:	970226 A2	Representative (change)
*Assignee:	971119 A2	Applicant (transfer of rights) (change): Paradyne Corporation (285031) P.O. Box 2826, 8545 126th Avenue North Largo, Florida 33773 (US) (applicant designated states: DE;ES;FR;GB;IT)
*Assignee:	971119 A2	Previous applicant in case of transfer of rights (change): AT&T IPM Corp. (1907680) 2333

Ponce de Leon Boulevard Coral Gables, Florida 33134 (US) (applicant designated states: DE;ES;FR;GB;IT)
Search Report: 971203 A3 Separate publication of the European or International search report
Withdrawal: 990203 A2 Date on which the European patent application was deemed to be withdrawn: 980801
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	518
SPEC A	(English)	EPAB96	5402
Total word count - document A			5920
Total word count - document B			0
Total word count - documents A + B			5920

...SPECIFICATION data call. As used herein, "data call setup" is that portion of a data call **before** data **communications** equipment of the **called party** provides answer **tone** . Consequently, if the PSTN side of the **telephone** call does not establish for some reason (for instance, if the number is busy, rings...

19/5,K/6 (Item 6 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00502515
PRIVATE TELEPHONE SYSTEM WITH SIMPLIFIED COMMAND FEATURE.
FERNSPRECHNEBENSTELLENSYSTEM MIT VEREINFACHTEN STEUEREIGENSCHAFT.
SYSTEME DE TELEPHONE PRIVE DOTE D'UNE FONCTION DE COMMANDE SIMPLIFIEE.
PATENT ASSIGNEE:
NORTHERN TELECOM LIMITED, (217325), World Trade Center of Montreal, 380 St. Antoine Street West, 8th Floor, Montreal, Quebec H2Y 3Y4, (CA), (applicant designated states: AT;DE;FR;GB;IT;NL;SE)
INVENTOR:
OFFERS, Albert, George, 4 Alphonse Court, St Albert, Alberta T8N 5N9, (CA)
WHITE, Christopher, David, 97 Fentiman Avenue, Ottawa, Ontario K1S 0T7, (CA)
STORY, Roderick, Bruce, 1386 Ambridge Way, Ottawa, Ontario K2C 3T5, (CA)
LEGAL REPRESENTATIVE:
Ryan, John Peter William et al (57882), Northern Telecom Europe Limited Patents and Licensing West Road, Harlow, Essex CM20 2SH, (GB)
PATENT (CC, No, Kind, Date): EP 524965 A1 930203 (Basic)
EP 524965 B1 940601
WO 9116796 911031
APPLICATION (CC, No, Date): EP 91906444 910327; WO 91CA97 910327
PRIORITY (CC, No, Date): US 507828 900412
DESIGNATED STATES: AT; DE; FR; GB; IT; NL; SE
INTERNATIONAL PATENT CLASS: H04Q-011/04; H04M-009/00; H04M-003/42; H04M-001/274;
CITED PATENTS (WO A): EP 331838 A; US 4817136 A; GB 2218595 A; US 4442321 A ; US 4797915 A
CITED REFERENCES (WO A):
PATENT ABSTRACTS OF JAPAN vol. 12, no. 402 (E-673)(3249) 25 October 1988, & JP-A-63 142756 (HITACHI) 15 June 1988, see the whole document
PATENT ABSTRACTS OF JAPAN vol. 12, no. 184 (E-614)(3031) 28 May 1988, & JP-A-62 287796 (TOSHIBA) 14 December 1987, see the whole document;
NOTE:
No A-document published by EPO
LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 930203 A1 Published application (Alwith Search Report ;A2without Search Report)
Examination: 930203 A1 Date of filing of request for examination:

			920919
Change:	930428	A1	Inventor (change)
Examination:	930623	A1	Date of despatch of first examination report: 930512
Change:	931215	A1	Representative (change)
Grant:	940601	B1	Granted patent
Lapse:	950201	B1	Date of lapse of the European patent in a Contracting State: SE 940901
Lapse:	950329	B1	Date of lapse of the European patent in a Contracting State: NL 940601, SE 940901
Lapse:	950412	B1	Date of lapse of the European patent in a Contracting State: AT 940601, NL 940601, SE 940901
Oppn None:	950524	B1	No opposition filed
Lapse:	991020	B1	Date of lapse of European Patent in a contracting state (Country, date): AT 19940601, IT 19940601, NL 19940601, SE 19940901,

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	726
CLAIMS B	(German)	EPBBF1	780
CLAIMS B	(French)	EPBBF1	754
SPEC B	(English)	EPBBF1	12187
Total word count - document A			0
Total word count - document B			14447
Total word count - documents A + B			14447

...SPECIFICATION DKS.
Implications of Sharing Centrex Lines
The sharing of centrex lines by two or more **digital** key **telephone** sets may detract from the functionality of some of the centrex features. For example, if...

...forwarded, the call forward feature applies as well for that line on all the other **digital** key **telephone** sets. Similarly, if a user invokes the ring again feature on a centrex line, for example in response to a **called party** being busy, this may cancel another user's **previously** invoked **ring** again feature on that line. When the centrex ring again offer is made, the DKS will ring all the **digital** key **telephone** sets which have that centrex line designated as a prime line or as an extra line administered to ring. However this problem is avoidable providing that each of the **digital** key **telephone** sets has an exclusively assigned prime line and providing that the simplified features access feature...

19/5,K/7 (Item 7 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00324432
Coordinated transfer of voice and information through a digital switch.
Koordinierter Transfer von Sprache und Informationen durch ein digitales Koppelfeld.
Transfert coordonne de signaux de parole et de signaux d'information a travers un commutateur numerique.
PATENT ASSIGNEE:
International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (applicant designated states: BE;CH;DE;ES;FR;GB;IT;LI;NL;SE)
INVENTOR:
Baker, William Thomas, Jr., 950 Palo Alto Avenue, Palo Alto, CA 94301, (US)

Buffum, Charles Michael, 1414 Oak Knoll Drive, San Jose, CA 95129, (US)
Jolissaint, Charles Henry, 795 Belfair Court, Sunnyvale, CA 94087, (US)
Kerlin, Gregg William, 124 Mary Way, Los Gatos, CA 95032, (US)
LEGAL REPRESENTATIVE:
Vekemans, Andre (18921), Compagnie IBM France Departement de Propriete Intellectuelle, F-06610 La Gaude, (FR)
PATENT (CC, No, Kind, Date): EP 320426 A1 890614 (Basic)
EP 320426 B1 930804
APPLICATION (CC, No, Date): EP 88480080 881122;
PRIORITY (CC, No, Date): US 131070 871209
DESIGNATED STATES: BE; CH; DE; ES; FR; GB; IT; LI; NL; SE
INTERNATIONAL PATENT CLASS: H04M-003/54; H04Q-011/04;
CITED PATENTS (EP A): WO 8802966 A; EP 75503 A; EP 177218 A; WO 8606901 A; DE 3004683 A
CITED REFERENCES (EP A):
INTERNATIONAL SWITCHING SYMPOSIUM, Kyoto, 25th - 29th 1976, pages 211-4-1 - 211-4-8; K. TAKEUCHI et al.: "Implementation of man-machine interface in the XE-I SPC international telephone switching system"
IBM SYSTEMS JOURNAL, vol. 25, no. 3-4, part 1, 1986, pages 380-398, Armonk, NY, US; J.M. KASSON: "An advanced voice/data telephone switching system"
PROCEEDINGS OF THE NATIONAL COMMUNICATIONS FORUM, vol. XXXXI, no. 1, 1987, pages 506-515, Chicago, Illinois, US; B. NEWMAN et al.: "ISDN end-user applications"
INTERNATIONAL SWITCHING SYMPOSIUM 1987, Innoxations in switching technology, Phoenix, Arizona, 15th - 20th March 1987, paper A11.6, pages 875-879, IEEE, US; P. LYHNE et al.: "A basis for enhanced and new services for the next decades"
INTERNATIONAL CONFERENCE ON COMMUNICATIONS, Seattle, WA, 8th - 12th June 1980, vol. 2, paper 19.4, pages 1-7, IEEE, US; J. KANOW: "Automatic call distribution services in the ROLM CBX";

ABSTRACT EP 320426 A1
In many business applications, data about a client is created and entered on an agent's data terminal during a teleconference with the client. Often, it is necessary to transfer the client to a specialist during the course of the conversation. This invention describes a method of transferring the call and the data terminal information associated with the call to any available phone extension with an associated data terminal. A Computerized Branch Exchange (CBX) is used to transfer the call and pass a host program the phone source extension and the destination extension for the transfer. The host program looks up the source and destination extensions in a phone to terminal file and determines the network address of the data terminals involved and transfers the appropriate host application terminal display to invoke a transfer of display information. The host application sends the data terminal information to the destination data terminal display in conjunction with the transferred phone call.
ABSTRACT WORD COUNT: 161

LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 890614 A1 Published application (Alwith Search Report ;A2without Search Report)
Examination: 891206 A1 Date of filing of request for examination: 891011
Examination: 920520 A1 Date of despatch of first examination report: 920403
Grant: 930804 B1 Granted patent
Oppn None: 940727 B1 No opposition filed
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	1537
CLAIMS B	(German)	EPBBF1	875
CLAIMS B	(French)	EPBBF1	1031

SPEC B (English) EPBBF1 11734
Total word count - document A 0
Total word count - document B 15177
Total word count - documents A + B 15177

...SPECIFICATION phone, as contrasted with ACD pilots or Phonemail pilots. Extension is considered the extension normally **associated with** a phone (normal **extension**) unless a **qualifier appears before** extension.
CMCS caller is a trunk or extension that calls a CMCS called party. CMCS...

...agent refers to the operator, phone and host display terminal associated with a particular agent.
Telephone activity is any call activity that occurs on a CMCS called party extension, for example...

19/5,K/8 (Item 8 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00280994
A TELEPHONE LINE MONITORING SYSTEM.
UBERWACHUNGSSYSTEM FUR FERNSPRECHLEITUNGEN.
SYSTEME DE CONTROLE DE LIGNES TELEPHONIQUES.
PATENT ASSIGNEE:
ELECTRONIC INFORMATION SYSTEMS, Inc., (930520), 360 Fairfield Avenue, Stamford, CT 06902, (US), (applicant designated states: DE;FR;GB;IT;NL)
INVENTOR:
JESURUM, Robert, 364 Pepper Ridge Road, Stamford, CT 06905, (US)
LEGAL REPRESENTATIVE:
Cross, Rupert Edward Blount et al (42891), BOULT, WADE & TENNANT 27 Furnival Street, London EC4A 1PQ, (GB)
PATENT (CC, No, Kind, Date): EP 268667 A1 880601 (Basic)
EP 268667 A1 890111
EP 268667 B1 940119
WO 8707799 871217
APPLICATION (CC, No, Date): EP 87904182 870603; WO 87US1365 870603
PRIORITY (CC, No, Date): US 870506 860604
DESIGNATED STATES: DE; FR; GB; IT; NL
INTERNATIONAL PATENT CLASS: H04M-001/24; H04M-001/26;
CITED PATENTS (EP A): FR 2483149 A; FR 2483149 A; US 4004101 A; GB 2156188 A
CITED PATENTS (WO A): US 4356348 A; US 4356348 A; US 4534041 A; US 4667065 A
CITED REFERENCES (EP A):
11TH ASILOMAR CONFERENCE ON CIRCUITS, SYSTEMS AND COMPUTERS, Pacific Grove, California, 7th-9th November 1977, pages 471-476, IEEE, New York, US; G.H. HOSTETTER et al.: "Waveform analysis using zero-detection with applications to speech processing"
Idem
Idem
ICASSP 86 PROCEEDINGS, INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, Tokyo, 7th-11th April 1986, vol. 1, pages 9.11.1-9.11.4; J.P. CAMPBELL Jr. et al.: "Voiced/unvoiced classification of speech with applications to the U.S. government LPC-10E algorithm"
See also references of WO8707799;
NOTE:
No A-document published by EPO
LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 880601 A1 Published application (A1with Search Report ;A2without Search Report)
Examination: 880601 A1 Date of filing of request for examination:

880208
Search Report: 890111 A1 Drawing up of a supplementary European search report: 881124
Examination: 910612 A1 Date of despatch of first examination report: 910426
Grant: 940119 B1 Granted patent
Oppn None: 950111 B1 No opposition filed
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	1426
CLAIMS B	(German)	EPBBF1	1361
CLAIMS B	(French)	EPBBF1	1604
SPEC B	(English)	EPBBF1	2788
Total word count - document A			0
Total word count - document B			7179
Total word count - documents A + B			7179

...SPECIFICATION delay.
Inasmuch as there are typically several seconds between normal ring signals used by the **telephone** switching network, it is not possible to determine the **called party** pickup by detecting loss of **ring** voltage. Furthermore, it is not uncommon to have the **called party** pickup **prior** to the initiation of **ring** signaling as received by the calling system, since ring signals heard by the called party...

...it may be assumed that the called party will always respond verbally when answering the **telephone** .
Many of the techniques employed by present telephone line monitoring systems cannot detect or distinguish...

19/5,K/9 **(Item 1 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT

00946272 **Image available**
AN INTELLIGENT TELEPHONE SET
POSTE TELEPHONIQUE INTELLIGENT
Patent Applicant/Assignee:
WORLDCOM INC, 500 Clinton Center Drive, Clinton, MS 39056, US, US (Residence), US (Nationality)
Inventor(s):
KIM Hack, 1709 Burningtree Lane, Plano, TX 75093, US,
Legal Representative:
GROLZ Edward W (agent), Scully, Scott, Murphy & Presser, 400 Garden City Plaza, Garden City, NY 11530, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200280502 A1 20021010 (WO 0280502)
Application: WO 2002US10275 20020402 (PCT/WO US0210275)
Priority Application: US 2001824116 20010402
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04M-001/56
International Patent Class: H04M-003/00
Publication Language: English
Filing Language: English
Fulltext Availability:
Detailed Description

Claims
Fulltext Word Count: 8426

English Abstract
An intelligent telephone set (10) is disclosed that includes a caller-ID circuit (18) that extracts a call identifier from an incoming call. A call processing circuit (20) in communication with the caller-ID circuit (18) assigns the incoming call to a caller category associated with the call identifier. Subsequently, it selects a call processing action corresponding to the caller category and processes the incoming call using the selected call processing action. The intelligent telephone set (10) allows users to set criteria for receiving and processing calls based on CID data. One such call processing action is to use CID data to forward an incoming call to a predetermined location.

French Abstract
L'invention concerne un poste telephonique intelligent (10) comportant un circuit d'identification (18) d'appelant qui extrait un identificateur d'appel a partir d'un appel entrant. Un circuit de traitement d'appel (20), en communication avec le circuit d'identification d'appelant (18), attribue l'appel entrant a une categorie d'appelant associee a l'identificateur d'appel. Par la suite, il choisit une action de traitement d'appel correspondant a la categorie d'appelant et traite l'appel entrant en utilisant l'action de traitement choisie. Le poste telephonique intelligent (10) permet a l'utilisateur de fixer des criteres de reception et de traitement des appels en fonction de donnees d'identification de l'appelant, CID. Une telle action de traitement des appels consiste a utiliser de telles donnees pour faire suivre un appel entrant vers un emplacement predetermine.

Legal Status (Type, Date, Text)
Publication 20021010 A1 With international search report.
Examination 20030116 Request for preliminary examination prior to end of 19th month from priority date

Fulltext Availability:
Detailed Description

Detailed Description
... the library of tones
stored in database portion 226. In step 328, processor 20 allows **telephone** set 10 to **ring** for a predetermined number of times **before** determining that the **called party** is not available. if the call is not answered, processor 20 retrieves a **voice message** from memory 22 informing the calling party that there is no one available to answer...

19/5,K/10 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00459358 **Image available**
GENERATING A DISTINCTIVE RING TONE FOR A CALLING PARTY SUBSCRIBER WITHIN A TELECOMMUNICATIONS NETWORK
PRODUCTION D'UNE TONALITE D'APPEL DISTINCTE POUR UN ABONNE APPELANT DANS UN RESEAU DE TELECOMMUNICATIONS
Patent Applicant/Assignee:
ERICSSON INC,
Inventor(s):
BIRZE Michael J,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9849822 A1 19981105
Application: WO 98US8555 19980428 (PCT/WO US9808555)
Priority Application: US 97845940 19970429

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Main International Patent Class: H04M-003/42
International Patent Class: H04M-03:50
Publication Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 5188

English Abstract
In response to an incoming call connection request (200), a terminal type associated with a called party subscriber terminal is **communicated** (260) back from a terminating exchange to an originating exchange. The originating exchange then instructs the terminating exchange to provide a particular ring tone (distinctive ring) (160) associated with the determined terminal type over an established call connection. The terminating **telecommunications** then generates (330) the instructed ring tone over the call connection and waits (340, 350) a predefined period of time **before** alerting (360) the **called party** subscriber terminal. Upon hearing the distinctive **ring tone** , the calling party subscriber is able to ascertain the dialed terminal type (business, residential, cellular, wireline) and has an option to terminate the established call connection before the called party subscriber is alerted.

French Abstract
En reponse a une demande de connexion d'appel entrant (200), un central d'arrivee communique (260) en retour a un central de depart le type de terminal associe a un terminal d'un abonne appele. Le central de depart commande ensuite au central d'arrivee de produire une tonalite d'appel particuliere (sonnerie distincte) (160) associee au type de terminal determine sur une connexion d'appel etablie. Le central d'arrivee produit (330) ensuite la tonalite d'appel commandee sur la connexion d'appel et attend (340, 350) pendant une duree predefinie avant de faire sonner (360) le terminal de l'abonne appele. En entendant la tonalite d'appel distincte, l'abonne appelant peut determiner le type de terminal appele (professionnel, residentiel, cellulaire, ligne cablee) et choisir de mettre fin a la connexion d'appel etablie avant que la sonnerie de l'abonne appele ne retentisse.

Fulltext Availability:
Detailed Description

English Abstract
...call connection request (200), a terminal type associated with a called party subscriber terminal is **communicated** (260) back from a terminating exchange to an originating exchange. The originating exchange then instructs...
...ring) (160) associated with the determined terminal type over an established call connection. The terminating **telecommunications** then generates (330) the instructed ring tone over the call connection and waits (340, 350) a predefined period of time **before** alerting (360) the **called party** subscriber terminal. Upon hearing the distinctive **ring tone** , the calling party subscriber is able to ascertain the dialed terminal type (business, residential, cellular...

Detailed Description
... subscriber terminal to allow ample time for the calling party subscriber to hear the generated **tone** and to possibly terminate the call connection **before** alerting the **called party** subscriber terminal at step 350.

However, if a release signal from the originating telecommunications exchange...

19/5,K/11 (Item 3 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00433749 **Image available**
METHOD AND APPARATUS FOR SENDING AN ANNOUCEMENT TO CALLER
PROCEDE ET APPAREIL DESTINES A ENVOYER UNE ANNONCE A UN APPELANT
Patent Applicant/Assignee:
ERICSSON INC,
Inventor(s):
WU Woody,
HUANG Qilin,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9824213 A2 19980604
Application: WO 97US21667 19971124 (PCT/WO US9721667)
Priority Application: US 96757049 19961126
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Main International Patent Class: H04M-003/38
International Patent Class: H04M-03:50
Publication Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 3193

English Abstract
An apparatus in a local switch or in an advanced intelligent network determines whether a called party is a subscriber of a Send Announcement to Caller subscriber feature whenever a called party receives a call. The apparatus also determines whether the feature is presently activated. If it is, either a selected standard announcement or a customized announcement is played to the calling party. The customized announcement which must be prerecorded, allows a subscriber to give a calling party specific guidelines about whether the calling party should hang up or even bother to call back. In a business environment, this announcement can be used to play a trademark slogan or an advertisement. The call routing process is suspended for a specified amount of time to give the calling party enough time to respond. After specified amount of time has expired, the call routing process is completed.

French Abstract
L'invention concerne un appareil, dans un centre de commutation locale ou dans un reseau intelligent de pointe, permettant de determiner si un appele est abonne a un "service d'envoi d'annonce a l'appelant" fonctionnant lors de la reception d'un appel. L'appareil permet egalement de determiner si ce service est active au moment de l'appel. Le cas echeant, une annonce standard selectionnee ou une annonce personnalisee se fait entendre a l'intention de l'appelant. L'annonce personnalisee, qui doit etre enregistree au prealable, permet a un abonne de donner a un appelant des indications specifiques, a savoir s'il lui faut raccrocher ou rappeler. Dans un environnement commercial, cette annonce peut etre utilisee pour faire passer un slogan ou une publicite de marque. La procedure d'acheminement d'appel est suspendue pour un intervalle de temps specifie, afin de laisser a l'appelant assez de temps pour repondre. Une fois ecoule cet intervalle specifie, la procedure

d'acheminement d'appel est terminee.

Fulltext Availability:
Detailed Description

Detailed Description
... an appropriate manner (e.g., hang up) if prompted to do so by the announcement, **before** the routing is completed and **before** the **called party phone** begins to **ring** . More specifically, the call routing process is temporarily suspended while the specified announcement is being...

19/5,K/12 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00237381
IMPROVED CALL PACING WITH CALL TERMINATION PRIOR TO FIRST RING IN POTENTIAL NO OPERATOR CONDITION
REGULATION D'APPELS TELEPHONIQUES AMELIOREE AVEC ARRET DE L'APPEL AVANT LA PREMIERE SONNERIE DANS LE CAS D'ABSENCE POTENTIELLE D'OPERATEUR
Patent Applicant/Assignee:
INTERNATIONAL TELESYSTEMS CORPORATION,
Inventor(s):
SYU Dzu-Wan,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9311645 A1 19930610
Application: WO 92US9924 19921112 (PCT/WO US9209924)
Priority Application: US 91546 19911127
Designated States: CA JP AT BE CH DE DK ES FR GB GR IE IT LU MC NL SE
Main International Patent Class: H04Q-003/64
International Patent Class: H04M-03:42
Publication Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 7457

English Abstract
This invention contemplates the provision of a call pacing method in which the number of calls to dial is periodically (e.g. every two seconds) determined on the basis of anticipated operator availability. The determined number of calls are dialed, subject to a limiting function. Calls in progress are interrupted in a short time slot (46) just prior to first ring if the number of operators available to respond to an answered call falls below a predetermined percentage of the total number of system operators.

French Abstract
L'invention se rapporte a un procede de regulation d'appels telephoniques en fonction duquel le nombre d'appels a effectuer est deermine periodiquement (par exemple toutes les deux secondes) en se basant sur la disponibilite anticipee de l'operateur. Le nombre determine d'appels s'effectue selon une fonction de limitation. Les appels en cours sont interrompus dans une tranche de temps reduite (46) immediatement avant la premiere sonnerie si le nombre d'operateurs disponibles pour traiter un appel ayant obtenu une reponse tombe au-dessous d'un pourcentage predetermine du nombre total des operateurs du systeme.
Fulltext Availability:
Detailed Description

Detailed Description
... for a dial tone; b) dialing the digits of

the called number; c) a public **phone** network processing time; and d) a tone recognition processing time. The interval during which a **phone** SUBSTITUTE SHEET call can be interrupted without bothering the **called party** is the interval **prior** to the start of the **tone** recognition processing (D). Interrupting a call setup after tone recognition starts is considered a nuisance call since it causes ringing on the called **phone** and hangs up before the **phone** is answered. At the same time, it is desirable to delay as long as possible...

19/5,K/13 (Item 5 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00199437 **Image available**
PRIVATE TELEPHONE SYSTEM WITH SIMPLIFIED COMMAND FEATURE
SYSTEME DE TELEPHONE PRIVE DOTE D'UNE FONCTION DE COMMANDE SIMPLIFIEE
Patent Applicant/Assignee:
NORTHERN TELECOM LIMITED,
Inventor(s):
OFFERS Albert George,
WHITE Christopher David,
STORY Roderick Bruce,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9116796 A1 19911031
Application: WO 91CA97 19910327 (PCT/WO CA9100097)
Priority Application: US 90828 19900412
Designated States: AT AU BE CA CH DE DK ES FR GB GR IT JP KP LU NL SE
Main International Patent Class: H04Q-011/04
International Patent Class: H04M-09:00; H04M-03:42; H04M-01:274
Publication Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 14318

English Abstract
A key telephone system (120), having ports (22) for connection to telephone lines of a telephone exchange and ports (12) for connection of terminal apparatus including key telephone sets (125), is provided with the ability to distinguish if an intended call or feature access involves more than the key telephone system. If so, a signalling protocol of the telephone exchange is emulated on behalf of the terminal apparatus and transmitted via one of the telephone lines whereby the progress of the call or feature access continues, as if a user of the terminal apparatus had initiated the signalling protocol of the telephone exchange.

French Abstract
On decrit un systeme de telephone a touches (120), equipe de ports (22) permettant le branchement aux lignes telephoniques d'un central telephonique et de ports (12) pour le branchement d'appareils terminaux tels que postes de telephone a touches (125). Ledit systeme peut determiner si l'appel ou l'acces a un service envisage concerne une partie du systeme en plus de la partie telephone a touches. Dans l'affirmative, un protocole de signalisation du central est emule pour l'appareil terminal et est transmis par l'une des lignes telephoniques. Des lors, l'appel ou l'acces a un service continue comme si l'utilisateur de l'appareil terminal avait declenche le protocole de signalisation du central telephonique.

Fulltext Availability:
Detailed Description

Detailed Description
... key programmed to
access the line pool, or by assigning a line pool as the **digital** key **telephone** set's prime line, However the simplified dialling feature is not available via a line obtained from the line pool. Any digits dialled at the **digital** key **telephone** set are sent out as DTMF signalling by the DKS on the actual external line...

...DKS
implications of Sharina Centrex Lines
The sharing of centrex lines by two or more **digital** key **telephone** sets may detract from the functionality of some of the centrex features. For example, if...
...forwarded, the call forward
feature applies as well for that line on all the other **digital** key- **telephone** sets, Similarly, if a user invokes the ring again feature on a centrex line, for example in response to a **called party** being busy, this may cancel another user's **previously** invoked **ring** again feature on that line. When the centrex ring again offer is made, the DKS will ring all the **digital** key **telephone** sets which have that centrex line designated as a prime line or as an extra line administered to ring. However this problem is avoidable providing that each of the **digital** key **telephone** sets has an exclusively assigned prime line and providing that the simplified features access feature...

19/5,K/14 (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00195333 **Image available**
MULTIPLE CALLED-PARTY TELEPHONE AND ANSWERING MACHINE SYSTEM
SYSTEME DE TELEPHONE ET DE REPONDEUR AUTOMATIQUE INTEGRES POUR L'IDENTIFICATION D'UNE MULTITUDE DE DESTINATAIRES D'APPELS
Patent Applicant/Assignee:
LEE Siew Khoon,
Inventor(s):
LEE Siew Khoon,
LAU Ee Theow,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9112685 A1 19910822
Application: WO 91US1009 19910214 (PCT/WO US9101009)
Priority Application: US 90502 19900215
Designated States: AT BE CH DE DK ES FR GB GR IT JP KR LU NL SE
Main International Patent Class: H04M-001/64
International Patent Class: H04M-01:66
Publication Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 9480

English Abstract
A telephone and answering machine system for identifying the called party. The system stores codes identifying potential called parties, and associates each stored party code with a unique signal. The system prompts (via 15') for and decodes called party codes and issues the corresponding unique signal. The system can be further programmed to

direct telephone calls to predetermined called parties to an integrally controlled answering machine (192) for the recording of messages. The system maintains an identification of each message that is recorded and the corresponding called party. Finally, the system provides for the selective play-back of recorded messages chosen based on a called party code given in conjunction with the command to play-back pending recorded messages.

French Abstract

L'invention se rapporte a un systeme de telephone et de repondeur automatique integres, qui fournit l'identite de la personne demandee. Le systeme stocke des codes d'identification de personnes demandees potentielles et associe chaque code de personne demandee ainsi stocke a un signal unique. Le systeme sollicite (via l'unite 15') et decode les codes des personnes demandees, pour emettre ensuite le signal unique correspondant. Le systeme peut en outre etre programme pour diriger des appels telephoniques destines a des personnes demandees predeterminees vers un repondeur automatique integralement commande (192) en vue d'assurer l'enregistrement de messages. Le systeme conserve une identification de chaque message qui est enregistre ainsi que de la personne demandee correspondante. En outre, le systeme assure la lecture selective des messages enregistres choisis sur la base d'un code de personne demandee donne conjontement a l'ordre de lecture des messages enregistres en suspens.

Fulltext Availability:
Detailed Description

Detailed Description
... 15,, 1990.

BACKGROUND OF THE INVENTION
Field of the Inventio
The present invention relates to **telephony** . More particularly,, it relates to a **telephone** **ringer** which identifies the **called** . **party** **before** the **telephone** is answered and provides a multiple,:called party answering machine function.

Description of the Rdlated...

...This provides no information about, nor selectivity over, the identities of the caller nor the **called** **party** .

Prior improvements in **ringer** technology have dealt only with identifying the caller, and excluding certain callers through "call blocking...

...persons not entering a valid identifying code are not connected to the called party's **telephone** , To uniquely identify the sources of incoming calls, which may come from any of a...

19/5,K/15 **(Item 7 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT

00142924
A TELEPHONE LINE MONITORING SYSTEM
SYSTEME DE CONTROLE DE LIGNES TELEPHONIQUES
Patent Applicant/Assignee:
ELECTRONIC INFORMATION SYSTEMS,
Inventor(s):

JESURUM Robert,
Patent and Priority Information (Country, Number, Date):
Patent: WO 8707799 A1 19871217
Application: WO 87US1365 19870603 (PCT/WO US8701365)
Priority Application: US 86506 19860604
Designated States: AT BE CH DE FR GB IT JP LU NL SE
Main International Patent Class: H04M-001/24
International Patent Class: H04M-01:26
Publication Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 4186

English Abstract
A device (16) for detecting voice signals in the presence of supervisory signals on a number of telephone lines (14) so as to determine when machine-placed telephone calls have been answered. The device (16) comprises a zero crossing detector (17) for each telephone line monitored to determine the zero voltage crossings in the voltage of an incoming telephone signal, a latch (18) associated with each detector (17) for storing the occurrences of each zero voltage crossing detected and a microcomputer (19) for processing the frequency-related information of the incoming telephone signals according to a voice detection algorithm. The voice detection algorithm comprises timer interrupt and analysis routines that direct the microcomputer (19) to count the number of occurrences of different wavelengths of the waveforms composing an incoming telephone signal in determining the condition of response on a respective telephone line.

French Abstract
Dispositif (16) permettant de detecter des signaux vocaux en presence de signaux superviseurs sur un certain nombre de lignes telephoniques (14) de maniere a determiner si on a repondu a des appels telephoniques provenant d'une machine. Le dispositif (16) comprend un detecteur de passage par zero (17) pour chaque ligne telephonique controlee pour determiner les passages par le point zero de la tension d'un signal telephonique entrant, un registre (18) associe a chaque detecteur (17) et servant a memoriser le nombre de passages detectes de la tension par le point zero, et un microordinateur (19) servant a traiter les informations relatives aux frequences des signaux telephoniques entrant suivant un algorithme de detection vocale. L'algorithme de detection vocale comprend des sous-programmes d'analyse et d'interruption de temporisation qui permettent au microordinateur (19) de compter le nombre de longueurs d'ondes differentes presentes dans les formes d'ondes composant un signal telephonique entrant, pour determiner la condition de reponse d'une ligne telephonique respective.

Fulltext Availability:
Detailed Description

Detailed Description
... delay.

Inasmuch as there are typically several seconds between normal ring signals used by the **telephone** switching network, it is not possible to determine the **called party** pickup by detecting loss of **ring** voltage. Furthermore, it is not uncommon to have the **called party** pickup **prior** to the initiation of **ring** signaling as received by the calling system, since ring signals heard SUBSTITUTE SKET by the...

...may be assumed

5 that the called party will always respond verbally when answering the **telephone** .

Many of the techniques employed by present telephone line monitoring systems cannot detect or distinguish...

March 26, 2003

```
File   8:Ei Compendex(R) 1970-2003/Mar W3
         (c) 2003 Elsevier Eng.  Info. Inc.
File  35:Dissertation Abs Online 1861-2003/Feb
         (c) 2003 ProQuest Info&Learning
File  65:Inside Conferences 1993-2003/Mar W3
         (c) 2003 BLDSC all rts. reserv.
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         (c) 2003 Institution of Electrical Engineers
File 233:Internet & Personal Comp. Abs. 1981-2003/Feb
         (c) 2003 Info. Today Inc.
File  94:JICST-EPlus 1985-2003/Mar W4
         (c)2003 Japan Science and Tech Corp(JST)
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         (c)2001 ProQuest Info&Learning
File 483:Newspaper Abs Daily 1986-2003/Mar 25
         (c) 2003 ProQuest Info&Learning
File   6:NTIS 1964-2003/Mar W4
         (c) 2003 NTIS, Intl Cpyrght All Rights Res
File 144:Pascal 1973-2003/Mar W3
         (c) 2003 INIST/CNRS
File 202:Info. Sci. & Tech. Abs. 1966-2003/Mar 05
         (c) Information Today, Inc
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
File  34:SciSearch(R) Cited Ref Sci 1990-2003/Mar W3
         (c) 2003 Inst for Sci Info
File  99:Wilson Appl. Sci & Tech Abs 1983-2003/Feb
         (c) 2003 The HW Wilson Co.
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
         (c) 2002 The Gale Group

Set     Items   Description
S1    6860818   SIGNAL? OR FREQUENC? OR WAVE? OR PULS?
S2      12445   FSK OR FREQUENC?()SHIFT()KEYING OR LINE()REVERSAL
S3    3749437   TELEPHON? OR TELECOM? OR COMMUNICAT? OR (SPEECH? OR VOICE?-
            )()(MESSAG? OR TRANSMIS? OR TRANSMIT?) OR PHONE? OR FONE? OR -
            TELEGRAPH? OR TELEMETRY? OR TELEMETER? OR ANALOG? OR DIGITAL?
S4    8358036   ANSWER? OR RESPON? OR REPLY? OR ACKNOWLEDG? OR RETURN? OR -
            REACT?
S5    3527243   BEFORE OR PREVIOUS? OR PRIOR
S6     937255   RING? OR TONE? OR BUZZ? OR CHIME?
S7       1336   (PHONED OR CALLED)()(PARTY OR PARTIES OR PERSON? OR MAN OR
           MEN OR WOM?N) OR CALL??()RECEIV?
S8       2094   AU=(CANNON, J? OR CANNON J?)
S9        377   AU=(JOHANSON, J? OR JOHANSON J?)
S10         8   AU=(MICHELETTI, D? OR MICHELETTI D?)
S11         0   S8 AND S9 AND S10
S12         0   S9 AND S10
S13         0   S9 AND TELEPHON?
S14         0   S8 AND TELEPHON?
S15      3713   S5(3N)S6
S16     40221   S3(3N)S4
S17        16   S1(3N)S7
S18        14   RD (unique items)
S19         3   S15 AND S16 AND S1
S20         3   S19 NOT S18
S21         0   S3 AND S15 AND S7
S22         0   S2 AND S15 AND S7
S23         0   S15 AND S7
S24         3   S2 AND S15
S25         3   S24 NOT (S18 OR S20)
S26      1694   S1 AND S3 AND S5 AND S6
S27         2   S26 AND S7
S28         1   S27 NOT (S25 OR S18 OR S20)
```

10/3,K/1 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

03855243 E.I. No: EIP94051282536
Title: Coal-fired MHD test progress at the component development and integration facility
Author: Hart, A. T.; Filius, K. D.; **Micheletti, D. A.** ; Cashell, P. V.
Corporate Source: MSE, Inc., Butte, MT, USA
Conference Title: Proceedings of the 28th Intersociety Energy Conversion Engineering Conference
Conference Location: Atlanta, GA, USA Conference Date: 19930808-19930813
E.I. Conference No.: 19508
Source: Proceedings of the Intersociety Energy Conversion Engineering Conference v 1 1993. Publ by SAE, Warrendale, PA, USA. p 989-995
Publication Year: 1993
CODEN: PIECDE ISSN: 0146-955X ISBN: 0-7803-1388-7
Language: English

Author: Hart, A. T.; Filius, K. D.; **Micheletti, D. A.** ; Cashell, P. V.

10/3,K/2 (Item 1 from file: 65)
DIALOG(R)File 65:Inside Conferences

03319105 INSIDE CONFERENCE ITEM ID: CN035086134
RDHWT/MARIAH II Hypersonic Wind Tunnel System Integration Issues
Ring, L. E.; Simmons, G. A.; **Micheletti, D. A.** ; Schneider, L. X. ; Costantino, M.
CONFERENCE: Fluids 2000-Conference
PAPERS-AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS, 2000; AIAA 2000-2279 P: ALL
American Institute of Aeronautics and Astronautics, 2000
LANGUAGE: English DOCUMENT TYPE: Conference Separate paper
CONFERENCE SPONSOR: American Institute of Aeronatics and Astronautics
CONFERENCE LOCATION: Denver, CO
CONFERENCE DATE: Jun 2000
NOTE:
Separate papers in the range AIAA 2000-2215 to AIAA 2000-2697 with gaps held only

Ring, L. E.; Simmons, G. A.; **Micheletti, D. A.** ; Schneider, L. X. ; Costantino, M.

10/3,K/3 (Item 2 from file: 65)
DIALOG(R)File 65:Inside Conferences

00651367 INSIDE CONFERENCE ITEM ID: CN006332870
Coal-Fired MHD Test Progress at the Component Development and Integration Facility
Hart, A. T.; Filius, K. D.; **Micheletti, D. A.** ; Cashell, P. V.
CONFERENCE: Engineering aspects of magnetohydrodynamics-31st Symposium
SYMPOSIUM ON ENGINEERING ASPECTS OF MAGNETOHYDRODYNAMICS, 1993; 31st P: II.4.1
[np], 1993
LANGUAGE: English DOCUMENT TYPE: Conference Papers
CONFERENCE LOCATION: Whitefish, MT
CONFERENCE DATE: Jun 1993 (199306) (199306)
NOTE:
Also known as SEAM 31

Hart, A. T.; Filius, K. D.; **Micheletti, D. A.** ; Cashell, P. V.

10/3,K/4 (Item 3 from file: 65)
DIALOG(R)File 65:Inside Conferences

00055927 INSIDE CONFERENCE ITEM ID: CN000562191
Coal-Fired MHD Test Progress at the Component Development and Integration Facility
Hart, A. T.; Cashell, P. V.; Filius, K. D.; **Micheletti, D. A.**
CONFERENCE: Energy environment economics-28th Intersociety energy conversion engineering conference
INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE, 1993; CONF 28; VOL 1 P: 1.989-1.994
ACS, 1993
ISBN: 0841227725
LANGUAGE: English DOCUMENT TYPE: Conference Papers
CONFERENCE SPONSOR: American Chemical Society
CONFERENCE LOCATION: Atlanta, GA
CONFERENCE DATE: Aug 1993 (199308) (199308)
NOTE:
In 2 vols. Also known as IECEC-93

Hart, A. T.; Cashell, P. V.; Filius, K. D.; **Micheletti, D. A.**

10/3,K/5 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC

4873907 INSPEC Abstract Number: B9503-8430-005
Title: Coal-fired MHD test progress at the Component Development and Integration Facility
Author(s): Hart, A.T.; Filius, K.D.; **Micheletti, D.A.** ; Cashell, P.V.
Author Affiliation: MSE, Inc., Butte, MT, USA
p.989-94 vol.1
Publisher: American Chem. Soc, Washington, DC, USA
Publication Date: 1993 Country of Publication: USA 2 vol. (1262+943) pp.
ISBN: 0 8412 2722 5
U.S. Copyright Clearance Center Code: 2272-5/93/0028-356$06.00/0
Conference Title: Proceedings of 28th Intersociety Energy Conversion Engineering Conference - IECEC '93
Conference Date: 8-13 Aug. 1993 Conference Location: Atlanta, GA, USA
Language: English
Subfile: B

Author(s): Hart, A.T.; Filius, K.D.; **Micheletti, D.A.** ; Cashell, P.V.

10/3,K/6 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS

2194312 NTIS Accession Number: N20010021117/XAB
Theoretical Analysis of the Electron Spiral Toroid Concept
Cambier, J. L. ; **Micheletti, D. A.**
MSE Technology Applications, Inc., Butte, MT.
Corp. Source Codes: 112290000; M8538079
Sponsor: National Aeronautics and Space Administration, Washington, DC.
Report No.: NAS 1.26:210654; NASA/CR-2000-210654; NASA-32
Dec 2000 44p
Languages: English

Journal Announcement: USGRDR0113; STAR3903
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A04/MF A01

Cambier, J. L. ; **Micheletti, D. A.**

10/3,K/7 (Item 2 from file: 6)
DIALOG(R)File 6:NTIS

2132452 NTIS Accession Number: N19980000557/XAB
Magnetohydrodynamics Accelerator Research into Advanced Hypersonics (MARIAH)
Micheletti, D. A. ; Baughman, J. A. ; Nelson, G. L. ; Simmons, G. A.
MSE Technology Applications, Inc., Butte, MT.
Corp. Source Codes: 112290000
Report No.: NASA/CR-97-206242-P1; NAS 1.26:206242-P1,MSE-029-P1
1 Oct 1997 650p
Languages: English
Journal Announcement: GRAI9920; STAR3713
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A99/MF A06

Micheletti, D. A. ; Baughman, J. A. ; Nelson, G. L. ; Simmons, G. A.

10/3,K/8 (Item 3 from file: 6)
DIALOG(R)File 6:NTIS

2045875 NTIS Accession Number: N19980000959/XAB
Magnetohydrodynamics Accelerator Research into Advanced Hypersonics (MARIAH), Part 2
(Final Report, Apr. 1995 - Oct. 1997)
Baughman, J. A. ; **Micheletti, D. A.** ; Nelson, G. L. ; Simmons, G. A.
MSE Technology Applications, Inc., Butte, MT.
Corp. Source Codes: 112290000; M8538079
Sponsor: National Aeronautics and Space Administration, Washington, DC.; Department of Energy, Pittsburgh, PA.
Report No.: NAS 1.26:206242-PT-2; NASA/CR-97-206242-PT-2,MSE-029-PT-2
Oct 97 436p
Languages: English
Journal Announcement: GRAI9807; STAR3601
Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A20/MF A04

Baughman, J. A. ; **Micheletti, D. A.** ; Nelson, G. L. ; Simmons, G. A.

18/3,K/1 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

04545297 E.I. No: EIP96110400094
Title: Improved soft handover initiation algorithm in microcellular environment
Author: Lee, D.J.; Un, C.K.; Kim, B.C.; Ryu, S.M.; Park, Y.W.; Kang, K.H.
Corporate Source: Korea Advanced Inst of Science and Technology
Conference Title: Proceedings of the 1996 5th IEEE International Conference on Universal Personal Communications, ICUPC'96. Part 1 (of 2)
Conference Location: Cambridge, MA, USA Conference Date: 19960929-19961001
E.I. Conference No.: 45506
Source: Annual International Conference on Universal Personal Communications- Record v 1 1996.,96TH8185. p 310-314
Publication Year: 1996
CODEN: 85PGAM
Language: English

...Identifiers: handover initiation algorithm; User density; Manhattan street microcell environment; Cell boundary; Forced termination probability ; Handover **call** ; **Received signal** strength

18/3,K/2 (Item 2 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

02238654 E.I. Monthly No: EIM8703-021974
Title: TELEPHONE ANSWER DETECTION FOR AUTOMATED CALLING SYSTEMS.
Author: Bangerter, Richard M.
Corporate Source: Univ of Utah, Salt Lake City, UT, USA
Conference Title: Wescon/85 - Conference Record.
Conference Location: San Francisco, CA, USA Conference Date: 19851119
E.I. Conference No.: 09160
Source: Wescon Conference Record 1985. Publ by Electronic Conventions Management, USA. Distributed by Western Periodicals Co, North H Pap SS. 2, 10p
Publication Year: 1985
CODEN: WCREDI
Language: English

...Abstract: of answer detection. Answer detection is difficult since the telephone companies do not provide a **signal** indicating **called party** answer. Call progress tones and voice are the only signals that always appear on the...

18/3,K/3 (Item 3 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

02116320 E.I. Monthly No: EIM8609-059063
Title: SYNAPSISTEM - A WIRELESS, SELF - STEERING, SELF - SWITCHING COMMUNICATION SYSTEM.
Author: Gruenberg, Elliot L.
Corporate Source: BroadCom Inc, USA
Conference Title: GLOBECOM '85: IEEE Global Telecommunications Conference - Conference Record.
Conference Location: New Orleans, LA, USA Conference Date: 19851202
E.I. Conference No.: 08283
Source: Publ by IEEE, New York, NY, USA. Available from IEEE Service Cent (Cat n 85CH2190-7), Piscataway, NJ, USA p 947-954

Publication Year: 1985
Language: English

...Abstract: by pairing a pilot (control) frequency characteristic of the calling party with a complementary pilot **frequency** of the **called party** . Reception of the correct pair of frequencies by a Synapsistem node establishes a unique two...

18/3,K/4 (Item 4 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

01969276 E.I. Monthly No: EI8605044129 E.I. Yearly No: EI86120290
Title: ERROR REDUCTION METHOD FOR A DIGITAL SIGNAL PROCESSING VOICE AND AUDIBLE TELEPHONE RING TONE DETECTION ALGORITHM.
Author: Anon
Source: IBM Technical Disclosure Bulletin v 28 n 9 Feb 1986 p 4059-4060
Publication Year: 1986
CODEN: IBMTAA ISSN: 0018-8689
Language: ENGLISH

Identifiers: ERROR REDUCTION; VOICE ENERGY; VOICE DETECTION ALGORITHM; **CALLED PARTY** ; RINGBACK **SIGNAL**

18/3,K/5 (Item 5 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

01047425 E.I. Monthly No: EI8110087031 E.I. Yearly No: EI81097152
Title: CALL FAILURE SUPERVISION IN A TELECOMMUNICATIONS NETWORK.
Author: Bradbury, C. Ross
Corporate Source: PMG, Aust
Source: Telecommunication Journal of Australia v 30 n 3 1980 p 168-178
Publication Year: 1980
CODEN: TCJAAW ISSN: 0040-2486
Language: ENGLISH

...Abstract: sequence system in which each forward signal is acknowledged by a backward signal. The forward **signals** contain the **called party** information, and failure of the signaling sequence is indicated by failure of a backward signal...

18/3,K/6 (Item 6 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

00366676 E.I. Monthly No: EI7405030441
Title: AUTOMATIC PAGING SYSTEM.
Author: Croisier, A.
Source: IBM Technical Disclosure Bulletin v 16 n 8 Jan 1974 p 2448-2448a
Publication Year: 1974
CODEN: IBMTAA ISSN: 0018-8689
Language: ENGLISH

...Abstract: by the mere fact that the system receives back, via a telephone used by the **called person** , a coded **signal** which the system is transmitting uniquely to that particular receiver.

18/3,K/7 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online

01559015 ORDER NO: AAD13-83349
ENTRY STRATEGIES OF PERSONAL COMMUNICATIONS SERVICES (PCS) PROVIDERS IN THE UNITED STATES CELLULAR COMMUNICATIONS INDUSTRY
Author: DABADIE, ISABELLE MARIE
Degree: M.A.
Year: 1996
Corporate Source/Institution: MICHIGAN STATE UNIVERSITY (0128)
Source: VOLUME 35/03 of MASTERS ABSTRACTS.
PAGE 676. 133 PAGES

...the industry. Licenses have been awarded to provide digital cellular communications in the 1900 MHz **frequency** band **called** **Personal** Communications Services. The introduction of PCS has tremendously transformed the industry which promises high growth...

18/3,K/8 (Item 2 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online

871676 ORDER NO: AAD84-28945
A GENERALIZED MODEL OF A COMMUNICATIONS SATELLITE WITH A COMPARATIVE ANALYSIS OF SEVERAL MULTIPRIORITY QUEUEING DISCIPLINES (PRIORITY, MARKOVIAN, NONPREEMPTIVE, SIMULATION, COMPUTER)
Author: LOKERSON, DAVID THORNTON
Degree: D.SC.
Year: 1983
Corporate Source/Institution: THE GEORGE WASHINGTON UNIVERSITY (0075)
Source: VOLUME 45/11-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 3580. 192 PAGES

...and probability that a call is delayed because all allocated circuits are full and the **call** **receives** a busy **signal** . To demonstrate the interaction of these performance indices for a preassigned, single priority system with...

18/3,K/9 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC

7483125 INSPEC Abstract Number: A2003-03-4370F-001
Title: Synthesis of speechlike signals
Author(s): Vorob'ev, V.I.; Davydov, A.G.
Author Affiliation: Informatics & Radio Eng., Byelorussian State Univ., Minsk, Belarus
Journal: Akusticheskii Zhurnal vol.48, no.5 p.701-4
Publisher: MAIK Nauka/Interperiodica Publishing,
Publication Date: Sept.-Oct. 2002 Country of Publication: Russia
CODEN: AKZHAE ISSN: 0320-7919
SICI: 0320-7919(200209/10)48:5L.701;1-2
Material Identity Number: C265-2002-006
Translated in: Acoustical Physics vol.48, no.5 p.623-5
Publication Date: Sept.-Oct. 2002 Country of Publication: Russia
CODEN: AOUSEK ISSN: 1063-7710
SICI of Translation: 1063-7710(200209/10)48:5L.623:SSS;1-C
U.S. Copyright Clearance Center Code: 10613-7710/0214805-0623$22.00
Language: English
Subfile: A

...Abstract: that could be extracted by conventionally used simple means (primarily, by direct listening to these **signals** by the **called** **party**). It is desirable that the term "speechlike signals" has its own meaning

independent of the...

18/3,K/10 (Item 2 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

00017846 INSPEC Abstract Number: B69005352
Title: TDM telephone exchange
Assignee(s): Siemens A.G
Patent Number: GB 1122273 Issue Date: 680807
Application Date: 660113
Priority Appl. Number: DE S95003 Priority Appl. Date: 650114
Country of Publication: UK
Language: English
Subfile: B

Abstract: This exchange includes a rotary-type memory in which the addresses of the calling and **called parties** and a control **signal** for opening their line gates are stored in successive sub time slots of each time...

18/3,K/11 (Item 1 from file: 483)
DIALOG(R)File 483:Newspaper Abs Daily
(c) 2003 ProQuest Info&Learning. All rts. reserv.

03713504
F.C.C. given clearance on auction of airwaves
Andrews, Edmund L
New York Times, Sec D, p 2, col 1
Sep 29, 1995
ISSN: 0362-4331 NEWSPAPER CODE: NY
DOCUMENT TYPE: News; Newspaper
LANGUAGE: English RECORD TYPE: ABSTRACT
LENGTH: Medium (6-18 col inches)

...ABSTRACT: court has given the FCC permission to proceed with its next big auction of radio **frequencies** for so- **called personal** communications services, abruptly lifting an injunction that had been in place for several months. The...

18/3,K/12 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

06211546 Genuine Article#: YC180 No. References: 92
Title: Structural and functional analyses of activating amino acid substitutions in the receiver domain of NtrC: Evidence for an activating surface
Author(s): Nohaile M; Kern D; Wemmer D (REPRINT) ; Stedman K; Kustu S
Corporate Source: UNIV CALIF BERKELEY,DEPT CHEM/BERKELEY//CA/94720 (REPRINT); UNIV CALIF BERKELEY,DEPT CHEM/BERKELEY//CA/94720; UNIV CALIF BERKELEY,LAWRENCE BERKELEY LAB, DIV BIOL STRUCT/BERKELEY//CA/94720; UNIV CALIF BERKELEY,DEPT CELL & MOL BIOL/BERKELEY//CA/94720
Journal: JOURNAL OF MOLECULAR BIOLOGY, 1997, V273, N1 (OCT 17), P299-316
ISSN: 0022-2836 Publication date: 19971017
Publisher: ACADEMIC PRESS LTD, 24-28 OVAL RD, LONDON, ENGLAND NW1 7DX
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: acts positively on the remainder of the protein, is homologous to a large family of **signal** transduction domains **called receiver** domains. Phosphorylation of an aspartate residue in a receiver domain modulates the function of downstream...

18/3,K/13 (Item 2 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

03796787 Genuine Article#: QG202 No. References: 2
Title: FREQUENCY **AND NATURE OF** CALLS RECEIVED **ON THE DISTRESS LINE OF A CHAPTER OF ONTARIO FRIENDS OF SCHIZOPHRENICS**
Author(s): WOODS JF; KAZARIAN SS
Journal: CANADIAN JOURNAL OF PSYCHIATRY-REVUE CANADIENNE DE PSYCHIATRIE, 1994, V39, N7 (SEP), P449-450
ISSN: 0706-7437
Language: ENGLISH Document Type: LETTER

Title: FREQUENCY **AND NATURE OF** CALLS RECEIVED **ON THE DISTRESS LINE OF A CHAPTER OF ONTARIO FRIENDS OF SCHIZOPHRENICS**

18/3,K/14 (Item 1 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)

09169669
Trai rings in lower mobile phone tariffs
INDIA: TARIFFS FOR MOBILE PHONES REDUCED
Economic Times (YZY) 18 Sep 1999 p. 1
Language: ENGLISH

...normal . rates; 2) Mobile phone users would not be required to . pay any charges for **calls received** ; 3) **Pulse** rate for the first minute raised to 60 . seconds from 20 seconds. Subsequent minutes . will...

20/3,K/1 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal

13199395 PASCAL No.: 97-0464097
Haemodynamic changes in ipsilateral and contralateral fingers caused by acute exposures to hand transmitted vibration
BOVENZI M; GRIFFIN M J
Institute of Occupational Medicine, University of Trieste, Trieste 34129, Italy; Human Factors Research Unit, Institute of Sound and Vibration Research, University of Southampton, Southampton SO17 1BJ, United Kingdom
Journal: Occupational and environmental medicine : (London), 1997, 54 (8) 566-576
Language: English

... changes in digital circulation during and after exposure to hand transmitted vibration. By studying two **frequencies** and two magnitudes of vibration, to investigate the extent to which haemodynamic changes depend on the vibration **frequency** , the vibration acceleration, and the vibration velocity. Methods-Finger skin temperature (FST), finger blood flow...

... for 30 minutes to each of the following root mean squared (rms) acceleration magnitudes and **frequencies** of vertical vibration: 22 m.s SUP - SUP 2 at 31.5 Hz, 22 m...

... consisted of exposure to the static load only. The measures of digital circulation and vasomotor **tone** were taken **before** exposure to the vibration and the static load, and at 0, 20, 40, and 60...

... vasomotor tone throughout the 60 minute period after the end of vibration exposure. Conclusions-The **digital** circulatory **response** to acute vibration depends upon the magnitude and **frequency** of the vibration stimulus. Vasomotor mechanisms, mediated both centrally and locally, are involved in the **reaction** of **digital** vessels to acute vibration. The pattern of the haemodynamic changes in the fingers exposed to the vibration **frequencies** used in this study do not seem to support the **frequency** weighting assumed in the current international standard ISO 5349.

English Descriptors: Hand; Vibration induced disorder; Hemodynamics; Vascular disease; **Frequency** ; Vibration; Acceleration; Velocity; Blood flow; Surface temperature; Finger; Systolic pressure; Occupational exposure; Occupational medicine; Human

French Descriptors: Main; Trouble du aux vibrations; Hemodynamique; Vaisseau sanguin pathologie; **Frequence** ; Vibration; Acceleration; Vitesse; Debit sanguin; Temperature superficielle; Doigt; Pression systolique; Exposition professionnelle; Medecine travail; Homme

20/3,K/2 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

07371511 Genuine Article#: 157HA No. References: 12
Title: Definitive structural assignment of condensation products from anthranilamide and 3-amino-2-carbamoylthiophene with ketones. Formation of tetrahydroquinazolinones and their thiophene isosteres
Author(s): Klemm LH (REPRINT) ; Weakley TJR; Gilbertson RD; Song YH
Corporate Source: UNIV OREGON,DEPT CHEM/EUGENE//OR/97403 (REPRINT); MOKWON UNIV,DEPT CHEM/TAEJON 301729//SOUTH KOREA/
Journal: JOURNAL OF HETEROCYCLIC CHEMISTRY, 1998, V35, N6 (NOV-DEC), P 1269-1273
ISSN: 0022-152X Publication date: 19981100

Publisher: HETERO CORPORATION, PO BOX 993, ODESSA, FL 33556-0993
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: tetrahydroquinazolin-4-ones 6 by means of(a) the presence of a C-13 nmr **signal** at 66-79 ppm for atom C-2 and (b) X-ray crystallography on the tetramethylene compound 6a. **Analogously** , products from **reactions** of these cycloalkanones with 3-amino-2-carbamoylthiophene are now shown by C-13 nmr...

...5,6,7-tetrahydrothieno[2,3-e]pyrimidin-7-ones 5, rather than the chelate **ring** structures **previously** proposed. Additionally, conflicting literature reports on product 3 from reaction of acetone with 2 are...

20/3,K/3 (Item 2 from file: 34)

06037488 Genuine Article#: XQ935 No. References: 63
Title: Haemodynamic changes in ipsilateral and contralateral fingers caused by acute exposures to hand transmitted vibration
Author(s): Bovenzi M (REPRINT) ; Griffin MJ
Corporate Source: UNIV TRIESTE,IST MED LAVORO, CTR TUMORI, VIA PIETA 19/I-34129 TRIESTE//ITALY/ (REPRINT); UNIV SOUTHAMPTON,INST SOUND & VIBRAT RES, HUMAN FACTORS RES UNIT/SOUTHAMPTON SO17 1BJ/HANTS/ENGLAND/
Journal: OCCUPATIONAL AND ENVIRONMENTAL MEDICINE, 1997, V54, N8 (AUG), P 566-576
ISSN: 1351-0711 Publication date: 19970800
Publisher: BRITISH MED JOURNAL PUBL GROUP, BRITISH MED ASSOC HOUSE, TAVISTOCK SQUARE, LONDON, ENGLAND WC1H 9JR
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: changes in digital circulation during and after exposure to hand transmitted vibration. By studying two **frequencies** and two magnitudes of vibration, to investigate the extent to which haemodynamic changes depend on the vibration **frequency** , the vibration acceleration, and the vibration velocity.

Methods-Finger skin temperature (FST), finger blood flow...
...for 30 minutes to each of the following root mean squared (rms) acceleration magnitudes and **frequencies** of vertical vibration: 22 m.s(-2) at 31.5 Hz, 22 m.s(-2...

...consisted of exposure to the static load only. The measures of digital circulation and vasomotor **tone** were taken **before** exposure to the vibration and the static load, and at 0, 20, 40, and 60...

...vasomotor tone throughout the 60 minute period after the end of vibration exposure.

Conclusions-The **digital** circulatory **response** to acute vibration depends upon the magnitude and **frequency** of the vibration stimulus. Vasomotor mechanisms, mediated both centrally and locally, are involved in the **reaction** of **digital** vessels to acute vibration. The pattern of the haemodynamic changes in the fingers exposed to the vibration **frequencies** used in this study do not seem to support the **frequency** weighting assumed in the current international standard ISO 53-49.

25/3,K/1 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

06317904 E.I. No: EIP03107389941
Title: Performance analysis of an FFH/BFSK receiver with product-combining in a fading channel under multitone interference
Author: Shen, Ye-Shun; Su, Szu-Lin
Corporate Source: Department of Electrical Engineering National Cheng Kung University, Tainan, Taiwan
Conference Title: 2002 MILCOM Proceedings; Global Information GRID - Enabling Transformation Through 21st Century Communications
Conference Location: Anaheim, CA, United States Conference Date: 20021007-20021010
E.I. Conference No.: 60777
Source: Proceedings - IEEE Military Communications Conference MILCOM v 2 2002. p 905-910 (IEEE cat n 02CH37397)
Publication Year: 2002
CODEN: PMICET
Language: English

Abstract: A bit error probability (BEP) expression is derived for the fast frequency-hopping binary **frequency - shift - keying** spread-spectrum communication system with product-combining receiver over a slowly Rician fading channel under...
...the fading effect on the desired signal, but is insensitive to that on the jamming **tones** . Unlike **previously** published literature, our analytic results, validated with the aid of simulations, show that independent MTJ...
Descriptors: Radio receivers; Frequency hopping; **Frequency shift keying** ; Communication channels (information theory); Fading (radio); Radio interference; Spread spectrum communication; Jamming; White noise; Integral ...
Identifiers: Fast frequency hopping; Binary **frequency shift keying** receiver; Multitone interference; Product combining receiver; Rician fading channel; Additive white Gaussian noise; Multitone jamming...

25/3,K/2 (Item 2 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

00891414 E.I. Monthly No: EI8002012303 E.I. Yearly No: EI80037076
Title: IMPROVEMENT OF SLOW-RATE F. S. K. BY FREQUENCY AGILITY AND CODING.
Author: Gott, G. F.; Hillam, B.
Corporate Source: Univ of Manchester Inst of Sci & Technol, Engl
Source: Proceedings of the Institution of Electrical Engineers (London) v 126 n 6 Jun 1979 p 481-486
Publication Year: 1979
CODEN: PIEEAH ISSN: 0020-3270
Language: ENGLISH

Abstract: An **FSK** signal keyed at 75 bauds with 850 Hz frequency shift can have one of several...

...within any given hf voice channel. In the presence of interference from other users, the **FSK** system performance may be improved by choosing the **FSK tone** frequencies **before** message transmission, to correspond to frequencies within the voice channel where the interference is least...
...Descriptors: **Frequency Shift Keying** ; CODES, SYMBOLIC

25/3,K/3 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC

March 26, 2003

01383518 INSPEC Abstract Number: B79034936
Title: Improvement of slow-rate FSK by frequency agility and coding
Author(s): Gott, G.F.
Author Affiliation: Dept. of Electrical Engng. & Electronics, Univ. of Manchester Inst. of Sci. & Technol., Manchester, UK
Journal: Proceedings of the Institution of Electrical Engineers vol.126, no.6 p.481-6
Publication Date: June 1979 Country of Publication: UK
CODEN: PIEEAH ISSN: 0020-3270
Language: English
Subfile: B

Title: Improvement of slow-rate FSK by frequency agility and coding
Abstract: An **FSK** signal keyed at 75 bauds with 850 Hz frequency shift, can have one of several...

...any given h.f. voice channel. In the presence of interference from other users, the **FSK** system performance may be improved by choosing the **FSK tone** frequencies **before** message transmission, to correspond to frequencies within the voice channel where the interference is least...
...Descriptors: **frequency shift keying** ;
...Identifiers: slow rate **FSK** ;

March 27, 2003

```
File  16:Gale Group PROMT(R) 1990-2003/Mar 26
         (c) 2003 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 148:Gale Group Trade & Industry DB 1976-2003/Mar 26
         (c)2003 The Gale Group
File 621:Gale Group New Prod.Annou.(R) 1985-2003/Mar 26
         (c) 2003 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2003/Mar 26
         (c) 2003 The Gale Group
File  88:Gale Group Business A.R.T.S. 1976-2003/Mar 26
         (c) 2003 The Gale Group
File  47:Gale Group Magazine DB(TM) 1959-2003/Mar 25
         (c) 2003 The Gale group
File 275:Gale Group Computer DB(TM) 1983-2003/Mar 26
         (c) 2003 The Gale Group
File 570:Gale Group MARS(R) 1984-2003/Mar 25
         (c) 2003 The Gale Group
File  15:ABI/Inform(R) 1971-2003/Mar 26
         (c) 2003 ProQuest Info&Learning
File  98:General Sci Abs/Full-Text 1984-2003/Feb
         (c) 2003 The HW Wilson Co.
File 674:Computer News Fulltext 1989-2003/Mar W2
         (c) 2003 IDG Communications
File   9:Business & Industry(R) Jul/1994-2003/Mar 26
         (c) 2003 Resp. DB Svcs.
File 370:Science 1996-1999/Jul W3
         (c) 1999 AAAS
File 369:New Scientist 1994-2003/Mar W2
         (c) 2003 Reed Business Information Ltd.
File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
File 484:Periodical Abs Plustext 1986-2003/Mar W4
         (c) 2003 ProQuest
File 647:CMP  Computer Fulltext 1988-2003/Mar W1
         (c) 2003 CMP Media, LLC
File  20:Dialog Global Reporter 1997-2003/Mar 27
         (c) 2003 The Dialog Corp.
File 696:DIALOG Telecom. Newsletters 1995-2003/Mar 26
         (c) 2003 The Dialog Corp.
File 634:San Jose Mercury  Jun 1985-2003/Mar 26
         (c) 2003 San Jose Mercury News
File 553:Wilson Bus. Abs. FullText 1982-2003/Feb
         (c) 2003 The HW Wilson Co
File 635:Business Dateline(R) 1985-2003/Mar 26
         (c) 2003 ProQuest Info&Learning

Set     Items   Description
S1    4224272   SIGNAL? OR FREQUENC? OR WAVE? OR PULS?
S2       2456   FSK OR FREQUENC?()SHIFT()KEYING OR LINE()REVERSAL
S3   15816211   TELEPHON? OR TELECOM? OR COMMUNICAT? OR (SPEECH? OR VOICE?-
             )()(MESSAG? OR TRANSMIS? OR TRANSMIT?) OR PHONE? OR FONE? OR -
             TELEGRAPH? OR TELEMETRY? OR TELEMETER? OR ANALOG? OR DIGITAL?
S4   15534304   ANSWER? OR RESPON? OR REPLY? OR ACKNOWLEDG? OR RETURN? OR -
           REACT?
S5   15710020   BEFORE OR PREVIOUS? OR PRIOR
S6    1916559   RING? OR TONE? OR BUZZ? OR CHIME?
S7      21474   (PHONED OR CALLED)()(PARTY OR PARTIES OR PERSON? OR MAN OR
           MEN OR WOM?N) OR CALL??()RECEIV?
S8        360   AU=(CANNON, J? OR CANNON J?)
S9         94   AU=(JOHANSON, J? OR JOHANSON J)
S10         0   AU=(MICHELETTI, D? OR MICHELETTI D)
S11         0   S8 AND S9
S12        18   TELEPHON? AND (S8 OR S9)
S13        10   RD (unique items)
```

S14	16548	S5(3N)S6
S15	110	S1(3N)S7
S16	316495	S3(3N)S4
S17	0	S14(S)S15(S)S16
S18	64947	S1(S)S3(S)S4
S19	54	S18(S)S14
S20	37	RD (unique items)
S21	8	S20 AND PY=1999:2003
S22	29	S20 NOT S21
S23	4	S2(S)S14
S24	3	RD (unique items)
S25	3	S24 NOT (S22 OR S13)
S26	9	S5(5N)S6(5N)S7
S27	3	S26(S)S3
S28	3	RD (unique items)
S29	2	S28 NOT (S25 OR S22 OR S13)

13/3,K/1 **(Item 1 from file: 16)**
DIALOG(R)File 16:Gale Group PROMT(R)

08406376 Supplier Number: 70912675 (USE FORMAT 7 FOR FULLTEXT)
Buyer--Supplier Relationships and Customer Firm Costs.(research data)(Statistical Data Included)
Cannon, Joseph P. ; Homburg, Christian
Journal of Marketing, v65, n1, p29
Jan, 2001
Language: English Record Type: Fulltext
Article Type: Statistical Data Included
Document Type: Magazine/Journal; Refereed; Trade
Word Count: 10086

Cannon, Joseph P. ; Homburg, Christian
... frequency on customer costs, we separately examine the frequency of communication by face-to-face, **telephone** , and written/electronic means.
The types of issues addressed in the acquisition and storage of...

...routine enough that interfirm procedures for handling them become formalized and easily handled on the **telephone** .
The relatively routine and predictable nature of issues in product acquisition suggest that the most...
...use of less rich modes. Thus we predict that
(H.sub.1): More frequent (a) **telephone** communication and (b) written/electronic communication lower acquisition costs for customer firms.
In contrast, a...

...of technical specifications or following up with additional questions may be accomplished most efficiently by **telephone** or written/electronic communication. Thus, although the more costly face-to-face mode would be...

...to support these activities.
(H.sub.2): More frequent (a) face-to-face communication, (b) **telephone** communication, and (c) written/electronic communication lower operations costs for customer firms.
Information sharing. Supplier...on the geographic closeness measure.
In the United States, potential respondents were first contacted by **telephone** . Qualified and agreeable respondents were faxed a personalized letter and questionnaire. In Germany, questionnaires were...

...of 85 nonrespondents (50 in Germany and 35 in the United States) was contacted by **telephone** and asked four questions (from the questionnaire) about themselves and their companies. Comparing their answers...
extracted (d) .55 .65 .58

1. Frequency of face-to-face communication
2. Frequency of **telephone** communication .69
3. Frequency of written communication .49 .60
4. Amount of information sharing .33...

...54 .78 .67 .77 .56

1. Frequency of face-to-face communication
2. Frequency of **telephone** communication
3. Frequency of written communication
4. Amount of information sharing

5. Supplier flexibility
6...
...d)
Average variance
extracted (d)
1. Frequency of face-to-face communication
2. Frequency of **telephone** communication
3. Frequency of written communication
4. Amount of information sharing
5. Supplier flexibility
6...

...Product Acquisition
Variables Costs Costs
Supplier Communications
Frequency of face-to-face communication
Frequency of **telephone** communication .00

Frequency of written communication -.16 (**)
Information sharing -.08
Supplier Accommodation of the Customer...

...Future
Variables Costs Purchases
Supplier Communications
Frequency of face-to-face communication -.16 (**)
Frequency of **telephone** communication .11
Frequency of written communication -.15 (**)
Information sharing .02
Supplier Accommodation of the Customer
of face-to-face communication (H.sub.2a)
Frequency of **telephone** communication
Frequency of written communication (H.sub.1b), (H.sub.2c)
Information sharing
Supplier Accommodation...

...multiple correlation
Independent
Variables Rejected
Supplier Communications
Frequency of face-to-face communication
Frequency of **telephone** communication (H.sub.1a), (H.sub.2b)
Frequency of written communication
Information sharing (H.sub...

...support personnel face-to-face?
other people from this supplier face-to-face?
Frequency of **telephone** communication: About how often
does your firm interact with ... (once per day or more,
1...

13/3,K/2 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

07989956 Supplier Number: 62280532 (USE FORMAT 7 FOR FULLTEXT)
Slotting Allowances and Fees: Schools of Thought and the Views of Practicing Managers.
Bloom, Paul N.; Gundlach, Gregory T.; **Cannon, Joseph P.**
Journal of Marketing, v64, n2, p92

April, 2000
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Refereed; Trade
Word Count: 14637

Bloom, Paul N.; Gundlach, Gregory T.; **Cannon, Joseph P.**
... 20 years versus 23 years, p (less than).01) but were similar on other measures. **Telephone** interviews were also conducted with 154 randomly selected sample members, both retailers (80) and manufacturers...

...the use of slotting fees. Finally, the answers to two additional questions asked of all **telephone** contacts (regardless of questionnaire receipt/disposition) were compared across the self-reported responders and nonresponders...

13/3,K/3 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

12729330 SUPPLIER NUMBER: 66420495 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Use of the Web for Medical Information by a Gastroenterology Clinic Population.
O'Connor, J. Barry; **Johanson, John F.**
JAMA, The Journal of the American Medical Association, 284, 15, 1962
Oct 18, 2000
ISSN: 0098-7484 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 2095 LINE COUNT: 00204

... **Johanson, John F.**
... 2) showed that in 1998,60 million Americans searched for health information online. A random **telephone** survey performed by Cyber Dialogue (3) revealed that half of all online users would be...for medical information in the previous 12 months. This is consistent with the findings of **telephone** surveys. (4) The typical Web user seeking health information was a female in her early...

...advised by a physician to get medical information from the Web is consistent with a **telephone** survey by Cyber Dialogue. (3) Although 28% of our patients searched the Web within the...

13/3,K/4 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

05587003 SUPPLIER NUMBER: 11985314 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Binational panel dispute settlement under article 1904 of the United States-Canada Free Trade Agreement: a procedural comparison with the United States Court of International Trade. (Symposium: The United States Court of International Trade in a World of Transition)
Cannon, James R., Jr.
Law and Policy in International Business, 22, n4, 689-719
Fall, 1991
ISSN: 0023-9208 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 15100 LINE COUNT: 01179

Cannon, James R., Jr.
... C. app. at 896 (1988) (directing the assigned judge to consult parties "by scheduling conference, **telephone** , mail, or other suitable means" and enter a scheduling order to address all issues).
(76...

13/3,K/5 (Item 1 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

01403998 00054985
An examination of the nature of trust in buyer-seller relationships
Doney, Patricia M; **Cannon, Joseph P**
Journal of Marketing v61n2 PP: 35-51 Apr 1997
ISSN: 0022-2429 JRNL CODE: JMK
WORD COUNT: 12318

... **Cannon, Joseph P**
...TEXT: Jones, ed. Lincoln, NE: University of Nebraska Press.

Reference:

Dillman, Don A. (1978), Mail and **Telephone** Surveys: The Total Design Method. New York: John Wiley & Sons, Inc. Doyle, Stephen X. and...

13/3,K/6 (Item 1 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext

04651043 SUPPLIER NUMBER: 48609454 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Intraorganizational influence
Johanson, Jan-Erik
Management Communication Quarterly : McQ (FMCQ), v13 n3, p393-425, p.33
Feb 2000
ISSN: 0893-3189 JOURNAL CODE: FMCQ
DOCUMENT TYPE: Feature
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 10299

Johanson, Jan-Erik

TEXT:
... continuous measurement.
The 66 second-level respondents identified by first-level respondents were contacted by **telephone** , and the same questions were put to them. In addition, 156 third-level respondents received...

13/3,K/7 (Item 2 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext

03089124 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Lhasa lovers utilize a wealth of resources
Johanson, Joyce
Dog World (GDOG), v82 n1, p93-94, p.2
Jan 1997
ISSN: 0012-4893 JOURNAL CODE: GDOG
DOCUMENT TYPE: Feature
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 666

Johanson, Joyce

TEXT:
... are best friends every day because ..." All entries must include the owner's name, address, **telephone** number and the dog's name and age.
To receive contest rules or submit entries...

13/3,K/8 (Item 1 from file: 635)

DIALOG(R)File 635:Business Dateline(R)

0750794 97-09321
Corporate profile for GES Internet, Global Internet Services
Cannon, Jane Ellen
Business Wire (San Francisco, CA, US) p1
PUBL DATE: 961101
WORD COUNT: 417
DATELINE: Princeton, NJ, US, Middle Altantic

Cannon, Jane Ellen

TEXT:

...Inc.

Address: 4390 U.S. Route 1 North - 3rd Floor
Princeton, New Jersey 08540

Main **Telephone** Number: 609/514-3800

Facsimile Number: 609/514-9010

Chief Executive Officer: Sergio F. Heker...

13/3,K/9 (Item 2 from file: 635)
DIALOG(R)File 635:Business Dateline(R)

0744198 97-02722
Corporate profile for Global Enterprises Services Inc.
Cannon, Jane Ellen
Business Wire (San Francisco, CA, US) p1
PUBL DATE: 961011
WORD COUNT: 396
DATELINE: Princeton, NJ, US, Middle Altantic

Cannon, Jane Ellen

TEXT:

...Enterprise Services, Inc.

Address: 4390 US Route/North - 3rd Floor
Princeton, N.J. 08540

Main **Telephone** Number: 609-514-3800

Chief Executive Officer: Sergio F. Heker

Chief Financial Officer: Matthew Hughes...

13/3,K/10 (Item 3 from file: 635)
DIALOG(R)File 635:Business Dateline(R)

March 26, 2003

0265666 92-11975
New Long-Distance Program for California Businesses Benefits Employees
Cannon, Jim ; Lamont, Greg; Silveus, Sheryl; Dunn, Rich
Business Wire (San Francisco, CA, US) s1 p1
PUBL DATE: 920122
WORD COUNT: 255
DATELINE: Orange, CA, US

Cannon, Jim ...

TEXT:

...program that benefits both residential and business users by providing less expensive long-distance residential **telephone** service to employees of Express Tel's business customers.

The employee benefit program is designed...

...the end of the year," he said.

Express Tel is a full-service long-distance **telephone** company, with a full range of discounted long-distance services for customers who communicate throughout...

DESCRIPTORS: **Telephone** companies...

22/3,K/1 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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05335770 Supplier Number: 48118862 (USE FORMAT 7 FOR FULLTEXT)
SOHOtools to Debut New Connect-ID Select and Caller-ID Telephone at COMDEX -- Both With Advanced Dialing Features.
Business Wire, p11120051
Nov 12, 1997
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 723

... at COMDEX in the Sands Convention Center in Las Vegas, Nov. 17-21.
When the **phone** **rings** , even **before** you **answer** it, using Connect-ID Select or Caller-ID **Telephone** , and a **phone** company's Caller ID **signal** , you get instantaneous customer database information about the caller flashed on your screen. You can...

...to help with outbound calls, Connect-ID Select now lets you dial directly from any **telephone** number that appears on-screen from any computer application.
"With Connect-ID Select, all you...

22/3,K/2 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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04737668 Supplier Number: 46974334
Better telephone technology.
Cable World, v8, n51, p72
Dec 16, 1996
Language: English Record Type: Abstract
Document Type: Magazine/Journal; Trade

ABSTRACT:
EIS International Inc. and Scopus Technology Inc. are offering **telephone** technology that assist operators in handling customer calls and in the process help solicit new...

...Canada and Turnervision of West Virginia as customers, also offers products that filter out business **signals** , no **answers** , **answering** machines and **telephone** company special information **tones** (SIT) **before** an operator even receives the call, according to its senior product manager Ken Buda. Scopus...

22/3,K/3 (Item 3 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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04133340 Supplier Number: 46031667 (USE FORMAT 7 FOR FULLTEXT)
VOYSYS
Computer Telephony, p146
Jan 1, 1996
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 693

... and data (e.g. dollars, date, time, etc., file(s) or variable values). You can **answer** the **phone** , dial out with tone or **pulse** , wait for dial tone, do a switch hook flash, pause during dialing, and set the number of **rings** **before** terminating the call.
The VoysDesigner uses a 'worksheet' that allows you to build an IVR...

22/3,K/4 (Item 4 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

03353719 Supplier Number: 44646645 (USE FORMAT 7 FOR FULLTEXT)
FCC says code-calling doesn't constitute "unreasonable practice"
Common Carrier Week, pN/A
May 2, 1994
Language: English Record Type: Fulltext
Document Type: Newsletter; Professional Trade
Word Count: 199

(USE FORMAT 7 FOR FULLTEXT)
TEXT:
...back services using code-calling. Carriers that use code-calling, also known as uncompleted call **signalling** , tell customers in foreign locations to dial U.S. **telephone** number, hang up after pre-arranged number of **rings** , but **before** call is completed, and wait for reseller to **return** call to predesignated foreign **telephone** number, providing cheaper U.S. dial tone. Commission said: "Use of the resold services for...

...Commission said it agreed with resellers that "AT&T presented no evidence that uncompleted call **signalling** occurred often enough or made sufficient use of the network to impede revenue-producing use...

22/3,K/5 (Item 5 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

02764358 Supplier Number: 43705958 (USE FORMAT 7 FOR FULLTEXT)
Smart Max II Auto-Switches Phone Lines 03/11/93
Newsbytes, pN/A
March 11, 1993
Language: English Record Type: Fulltext
Document Type: Newswire; General Trade
Word Count: 324

... five rings.
The machine can also be remotely programmed from either a touch tone or **pulse** **phone** . Programming options include letting you control the number of **rings** **before** the device **answers** .
The device does not solve the call waiting problem. If you have call waiting, you...

22/3,K/6 (Item 6 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

02336881 Supplier Number: 43063213 (USE FORMAT 7 FOR FULLTEXT)
PRS' ID Logic automatic tuning technology
Audio Week, pN/A
June 8, 1992
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 291

(USE FORMAT 7 FOR FULLTEXT)
TEXT:
...plan, dynamic data base of programming information in receiver's memory would be updated via **digital** transmissions during short periods currently used by transmitters to send **tone** or time **signals** **before** scheduled

daily transmissions. Engineering staffs of BBC World Service and VOA will cooperate "in establishing...

...stations participated from outset (AW March 30 p2). Additional company, Real Time Designs, L.A., **responded** to NAB call for submissions of AM RDS proposals and its plan will be evaluated...

...NRSC meeting July 17. Separately, Richard Ekstract, publisher who folded Video Review magazine in April, **acknowledged** that he's investor in ID Logic and serves on PRS Corp. board. He wouldn...

22/3,K/7 (Item 1 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)

01882480
Bell Atlantic deploys Signaling System 7 in northern New Jersey
BOC Week February 22, 1988 p. 5,6
ISSN: 8755-3511

Bell Atlantic has deployed a commercial common channel **Signaling** System 7 (SS7) in 3 northern New Jersey offices. Deployed on trunks running between the...

... Haledon communities near New York City, the technology is used to execute out-of-band **signaling** for voice and data traffic that previously was carried on the same path as the...

... then attempt to tariff the first service that will ride on SS7--custom local area **signaling** system (CLASS) and the sophisticated custom calling features it facilitates. CLASS will allow subscribers to see the number of the party calling them, program their **phones** to ring in distinctive patterns if specific people are calling and automatically **return** calls of people who have just called even if the **phone** stopped **ringing before** the called party could **answer** it. Several other convenience features would also be available. Presently, the only advantage of SS7...

22/3,K/8 (Item 2 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)

01803801
PROMETHEUS INTRODUCES INTERNAL MODEM FOR TOSHIBA LAPTOPS
News Release October 9, 1987 p. 1

... a Hayes compatible 300/1200-baud internal modem for Toshiba laptop PCs which off bundled **communications** software, free connect time to online services, a a number of useful capabilities not offered...

...the optional modem offered by Toshiba. In addition, the ProModem 1200T's features include: -- Auto **answer** /Auto dial -- Wait for dial **tone before** dialing -- Automatic sensing of tone or **pulse** dialing -- Second **phone** jack for voice handset -- Voice/data exclusion switching to avoid data errors from an accidentally...

... to its extra technical features, the ProModem 1200T includes, in its purchase price: -- Mirror II **communications** software on a 3 1/2-inch floppy; -- coupons worth more than $300 for connect...

22/3,K/9 (Item 3 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)

01730778
BUSCOM QUICKTOUCH TONEDIALER PROVIDES "TRUE" TONES FOR NON-TONE DIALING PHONES
News Release May 22, 1987 p. 1

...Buscom, a Metro Tel company, permits access to services that require true, long duration DTMF **signals** even if an existing key system, PBX attendant console, **telephone** with polarity guard and **pulse** /rotary dial **telephone** does not generate the required true **tone signal** . **Previously** , these classifications of non-standard DTMF tone generators or **pulse** dial **phones** which account for about one-third of the **telephones** in the U.S. could not access **voice messaging** ; long distance services; central/remote dictation; multi-user, trunk-line speed dialers; 'beeperless' **answering** machines; **telephone** banking; and other audio **response** applications. The battery powered QuickTouch ToneDialer 2312 supplied with a 9V battery comes with an...

22/3,K/10 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

09702803 SUPPLIER NUMBER: 19715984 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Connect-ID from SOHOtools Rolling Out to Stores Nationwide.
Business Wire, p9030028
Sep 3, 1997
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 609 LINE COUNT: 00053

... national rollout to major retail stores chainwide.
Using Connect-ID (MSRP $59.95), and a **phone** company's Caller-ID **signal** , computer users get instantaneous customer database information flashed on their screen the moment a call arrives. When the **phone rings** , even **before** it is **answered** , all the information about the caller automatically appears.
A person can act on that information...

22/3,K/11 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

08352658 SUPPLIER NUMBER: 17912044 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Are you prepared to service the DRTV market? (direct response television)
Stoller, Sheldon
Telemarketing, v14, n5, p60(3)
Nov, 1995
ISSN: 0730-6156 LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 1699 LINE COUNT: 00128

... you have operators to keep the call traffic flow moving and eliminate as many busy **signals** as possible. An IVR (interactive voice **response**) system or some type of electronic messaging device is helpful to deliver product information such...

...you have managed the call processing through your center. Look at a comparison of your **telephone** service factor, abandoned call rate, average wait time, and all trunk busy status. If your statistics show 90 percent of calls were **answered prior** to three **rings** by an operator, less than 3 percent resulted in a hang up, and all trunks...

22/3,K/12 (Item 3 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

07660299 SUPPLIER NUMBER: 16115833 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Go beyond satisfaction or lose your customers. (Canadian life insurance industry) (Industry Overview)
Pavone, Leo
Best's Review - Life-Health Insurance Edition, v95, n9, p70(3)
Jan, 1995
DOCUMENT TYPE: Industry Overview ISSN: 0005-9706 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2225 LINE COUNT: 00182

... industries. Of course, the insurance industry can measure such things as how many times a **telephone rings before** it is **answered** , and airlines do measure **frequency** of late arrivals, among other variables, but each of these tends to be a dissatisfier...

22/3,K/13 (Item 4 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

07470443 SUPPLIER NUMBER: 16099184 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Improving inbound telephone service.
Hauser, Barry
Catalog Age, v11, n7, p195(3)
July, 1994
ISSN: 0740-3119 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 2589 LINE COUNT: 00210

... Renovator's Supply, Sturbridge Yankee Workshop, Tapestry and Yield House.
Despite the high incidence of **phone** calls **answered** within one ring, more than 15% of the sample allowed at least five **rings** to elapse **before responding** . Among this group were: Bartley Collection (11 rings), Bench Manufacturing (22), Bennington Potters (5), Charles...

...and Wild Wood Gallery (24). Of the 58 companies, only one cataloger had continual busy **signals** - Kaiser Crow.
And Touch of Class was the only company using an automated menu system...

22/3,K/14 (Item 5 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

07257964 SUPPLIER NUMBER: 15181149 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Taking significant position on otherwise routine ruling. (Federal Communications Commission deems practice of code-calling not 'unreasonable') (Telephony)
Communications Daily, v14, n79, p3(1)
April 25, 1994
ISSN: 0277-0679 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 212 LINE COUNT: 00017

TEXT:
...back services using code-calling. Carriers that use code-calling, also known as uncompleted call **signalling** , tell customers in foreign locations to dial U.S. **telephone** number, hang up after pre-arranged number of **rings** , but **before** call is completed, and wait for reseller to **return** call to predesignated foreign **telephone** number, providing cheaper U.S. dial tone. Commission said: "Use of the resold services for...

...Commission said it agreed with resellers that "AT&T presented no

evidence that uncompleted call **signalling** occurred often enough or made sufficient use of the network to impede revenue-producing use...

22/3,K/15 (Item 6 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

05220576 SUPPLIER NUMBER: 11306572 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Handling requesters: what's good, what's bad. (column)
Hauser, Barry
Catalog Age, v8, n3, p133(4)
March, 1991
DOCUMENT TYPE: column ISSN: 0740-3119 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 3150 LINE COUNT: 00243

... buying habits in years to come. The process begins as the last digit of the **phone** number is dialed. The **phone** will either ring, or there will be a busy **signal** . There may be few or many **rings** **before** the call is picked up. If the line is busy, the customer may or may...

...make further attempts to get through. Once the connection is completed, someone--or something--will **answer** . At that point of actual contact, the caller might be served immediately or put on...

22/3,K/16 (Item 7 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

05140268 SUPPLIER NUMBER: 10585751 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Take-out & delivery. (Equipment I.Q.)
Durocher, Joseph
Restaurant Business, v90, n5, p168(2)
March 20, 1991
ISSN: 0097-8043 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1941 LINE COUNT: 00144

... delivery point.
DING-A-LING. The common feature to both types of operation is the **telephone** . While a regular restaurant often relies on a single **phone** line, a high-volume delivery operation (and in some cases a take-out operation) requires several **phone** lines. Customers who must wait for five or six **rings** **before** getting an **answer** , or who hear a busy **signal** , can easily call the competition.
In large cities where there are multiple outlets of a...

22/3,K/17 (Item 8 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

04833884 SUPPLIER NUMBER: 08933760 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The customer focus. (cable television industry)
Bondarook-Belofsky, Nina
Cable Television Business, v27, n19, p2A(2)
Oct 1, 1990
ISSN: 0745-2802 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1314 LINE COUNT: 00108

... are promptly provided.
The standards cover signal leakage, the number of times the phone should **ring** **before** it's **answered** , employee training, proper grounding of cables, random tests to ensure compliance for both audio and

video levels, as well as standard hours of operation and **telephone** access. Employee attire, a 24-hour time frame to **answer** service problems, and a 30-day notice of rate increases also are included.
MANUFACTURERS
Manufacturers...

22/3,K/18 (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)

04060171 Supplier Number: 54108640 (USE FORMAT 7 FOR FULLTEXT)
OHIO EPA: Ohio EPA southeast district office process improvements team is in top 2 statewide.
M2 Presswire, pNA
Nov 3, 1998
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 388

... learned that 84 percent of public contact with the Ohio EPA district office is by **phone** . The Southeast District Office had 11 lines to handle all incoming and outgoing calls for...

...employees. As a result, lines were frequently busy, messages were difficult to retrieve, and the **phone** was **ringing** too long **before** being **answered** . The team set a goal to provide prompt, efficient service to **telephone** customers by ending busy- **signal** complaints, and offering a direct way to leave messages if an employee was not available...

...produced a 33 percent reduction in busy signals and a 41 percent reduction in excessive **ringing** **before** a call is **answered** .
The Logan office, serving 23 counties in Southeast Ohio can be reached at 740-385...

22/3,K/19 (Item 2 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)

02363736 Supplier Number: 44646677 (USE FORMAT 7 FOR FULLTEXT)
Untitled Article
Common Carrier Week, v11, n18, pN/A
May 2, 1994
Language: English Record Type: Fulltext
Document Type: Newsletter; Professional Trade
Word Count: 204

(USE FORMAT 7 FOR FULLTEXT)
TEXT:
...back services using code-calling. Carriers that use code-calling, also known as uncompleted call **signalling** , tell customers in foreign locations to dial U.S. **telephone** number, hang up after pre-arranged number of **rings** , but **before** call is completed, and wait for reseller to **return** call to predesignated foreign **telephone** number, providing cheaper U.S. dial tone. Commission said: "Use of the resold services for...

...Commission said it agreed with resellers that "AT&T presented no evidence that uncompleted call **signalling** occurred often enough or made sufficient use of the network to impede revenue-producing use...

22/3,K/20 (Item 3 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)

01575528 Supplier Number: 42344708 (USE FORMAT 7 FOR FULLTEXT)
ENHANCED SYSTEMS TARGETS PAGING INDUSTRY WITH VOICE-PROCESSING SOFTWARE
Industrial Communications, n36, pN/A
Sept 6, 1991
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 747

... industry standard, multi- source components and propriety software. The trunk interface board uses on-board **digital signal** processors in conjunction with Enhanced's "Call Analysis" software to provide hand-shaking with local or remote paging terminals to detect **answer** supervision and go-ahead **tones before** sending the display data or voice page.
Enhanced Systems recently added software to the ESP...

22/3,K/21 (Item 4 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)

01053391 Supplier Number: 40572284 (USE FORMAT 7 FOR FULLTEXT)
Nynex skirts pitfall of ISDN interconnection
BOC Week, v5, n45, p1
Nov 14, 1988
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 954

... may not have enough central offices (CO) equipped with SS7 to offer custom local area **signaling** services (CLASS) -- which depend on deployment of SS7 to the CO -- before late 1990 or early 1991, according to Phil Miller, Nynex director of **signaling** infrastructures. CLASS permits new calling features such as automatic callback to a number that quit **ringing before** someone could **answer** it and display of the calling party's **telephone** number.
Packet Links To ISDN
Instead, Nynex could use its packet network to connect ISDN...

22/3,K/22 (Item 1 from file: 88)
DIALOG(R)File 88:Gale Group Business A.R.T.S.

01726372 SUPPLIER NUMBER: 00659577
An Ovation for Novation.
Derfler, F.J.Jr.
PC Magazine, v4, n26, p189
Dec. 24, 1985
DOCUMENT TYPE: evaluation ISSN: 0888-8507 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 1621 LINE COUNT: 00147

...ABSTRACT: crystal display that provides status messages, six front-panel operating keys for a variety of **answering** and dialing operations, and can be programmed from the computer. A key on the front...

...routine is initiated each time the professional 2400 is turned on. The test checks the **signal** quality and strength and similar internal features. An optional program module that has ROM chips...

...in the rear of the modem. The 2400 has the capacity to tell a dial **tone** and pause **before** sending its data, and can join tone-and **pulse** dialing within the same command. A password can be established to control system

access. The modem conforms to the transmission standard that requires modems to have the ability to check **telephone** lines to ensure it can handle 2400 baud transmission. The 2400 will operate with a variety of software, but Novation sells Mycroft Labs' Mite **communication** package. No problems were encountered using the modem to transmit a 2K-byte text file ...

22/3,K/23 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)

02070501 SUPPLIER NUMBER: 19318711 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Building a call center? (Automatic Call Distributor products) (includes 16 related articles about call center products) (Buyers Guide)
Jainschigg, John
Teleconnect, v15, n4, p80(9)
April, 1997
DOCUMENT TYPE: Buyers Guide ISSN: 0740-9354 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 4444 LINE COUNT: 00358

... scaling estimates: there's a lot of math (and some black art) involved. Unlike conventional **phone** systems, for which the general rule of thumb for trunk/station ratio starts around 1...

...active agent, plus channels (or call appearances) for calls in the hold queue. A busy **signal** is a lost opportunity. Some savvy call center managers consider two **rings** **prior** to **answer** (by machine or human) to verge on unacceptable system performance.
Second, think about how you...

22/3,K/24 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)

01581669 SUPPLIER NUMBER: 13314277 (USE FORMAT 7 OR 9 FOR FULL TEXT)
FaxMe prints plain paper FAXes cheap, fast and easy. (Practical Peripherals Inc.)
Brown, Bruce
Computer Shopper, v13, n2, p899(1)
Feb, 1993
ISSN: 0886-0556 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 460 LINE COUNT: 00033

... allowing the device to change to FAX mode. You can also set the number of **rings** to wait **before** **answering** a call and whether the **phone** line should ring or give a busy **signal** if the LaserJet its printing. Other features set on the FaxMe cartridge include date and...

22/3,K/25 (Item 3 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)

01294126 SUPPLIER NUMBER: 07146304 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Sales and marketing automation. (To the Industry) (column)
Newton, Harry
Teleconnect, v7, n3, p14(2)
March, 1989
DOCUMENT TYPE: column ISSN: 0740-9354 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1334 LINE COUNT: 00105

... in and out of desktop and laptop computers. These networks are increasingly going with System **Signaling** #7, which can tell us who's calling **before** the **phone** **rings** , talk to our database and bring up on screen all the information about the person before we **answer** . "Good afternoon, Mr. Smith, how may TELECONNECT Magazine help you?"
That's it. S&MA...

22/3,K/26 (Item 1 from file: 370)
DIALOG(R)File 370:Science

00505232 (USE 9 FOR FULLTEXT)
Communication with Chaotic Lasers
VanWiggeren, Gregory D.; Roy, Rajarshi
School of Physics, Georgia Institute of Technology, Atlanta, GA 30332, USA.
Science Vol. 279 5354 pp. 1198
Publication Date: 2-20-1998 (980220) Publication Year: 1998
Document Type: Journal ISSN: 0036-8075
Language: English
Section Heading: Reports
Word Count: 1974

(THIS IS THE FULLTEXT)

...Text: transmission and reception of information with synchronized electronic circuits (B1) raised the question of optical **communication** with chaotic lasers. **Communication** with light **waves** with chaotic fluctuations of intensity has been considered in recent years by several investigators (B2...

...Although chaotic **communication** experiments with electronic circuits (B1) have typically demonstrated information transmission at bandwidths of tens of kilohertz or less, the fast dynamics often displayed by optical systems offers the possibility of **communication** at bandwidths of hundreds of megahertz or higher. In the past few years, we have...

...dynamics of erbium-doped fiber ring lasers (EDFRLs) (B3) with the goal of achieving optical **communication** with chaotic lasers. These lasers are particularly well suited for **communication** purposes because their lasing **wavelengths** roughly correspond to the minimum-loss **wavelength** in optical fiber. Such fiber ring lasers are capable of displaying both low-(<=3) and ...

...from an external cavity, tunable semiconductor laser is amplitude modulated with a 10-MHz square **wave** (the "message") by a lithium niobate Mach-Zehnder modulator (Fig. 1). The message is amplified by an erbium-doped fiber amplifier (EDFA) in the message modulation unit **before** injection into the **ring** laser transmitter. This operation allows us to adjust the proportion of message to chaotic carrier... .

...the transmitter EDFRL. The message is then injected into the EDFRL through a 90/10 **waveguide** coupler. The notation indicates that 10% of the message is injected into the ring and 90% of the light within the ring is retained. The semiconductor laser **wavelength** (1.5328 (mu) m) is tuned to resonance with one of the two peaks of...

...concentrations are matched carefully. The output from EDFA 2 is incident on photodiode B. The **signals** from the two photodiodes (125 MHz bandwidth) are recorded on the 1-GHz sampling rate **digital** oscilloscope and processed as described below...

...laser, and (tau) .inf(r) is the time delay that corresponds to propagation of these **waves** around the fiber loop in the ring laser. From Eq. 1, the field E.inf...

...for electronic circuits is used to recover the message from the chaotic carrier. The transmitter **signal** , s(t) = E.inf(T)(t) + m(t), propagates from the EDFRL to photodiode A, where the **signal** is recorded, and to the input of the receiver. We assume for ease of explanation...m(t)||.sup(2) and ||E.inf(R)(t)||.sup(2). The difference of these **signals** is 2Re(E.inf(T)*m) + ||m(t)||.sup(2). A low-pass **digital** filter can extract the message portion ||m(t)||.sup(2) because the message is transmitted at a **frequency** lower than the typical **frequency** (hundreds of megahertz) of the chaotic carrier fluctuations. We now describe the results of our...

...Fig. 2A shows no obvious low-dimensional structure (Fig. 2B). Figure 2C shows the synchronized **response** from the receiver EDFA. Because the length of the passive fiber in the receiver EDFA is shorter than in the EDFRL, the **signal** is time shifted by the appropriate delay (tau) = 51 ns to match the trace in...

...time (tau) .inf(r) of the EDFRL. Figure 2D, the synchronization plot of the two **signals** , reveals excellent reproduction of the transmitter output by the receiver. Numerical computations and analysis of...

...A chaotic intensity time trace of the transmitter output with square-**wave** modulation of the injected beam is shown in Fig. 3A; Fig. 3B shows its power spectrum. The spectrum is broadband; its high- **frequency** components are limited by the bandwidth of the photodetector. The 20 mW of circulating power in the EDFRL is much larger than the 5 (mu) W of message **signal** injected from the message modulation unit. The square- **wave** fundamental **frequency** component is barely visible in the power spectrum of this time trace, as seen in Fig. 3B. The receiver output recorded in **response** to the transmitted intensity (Fig. 3A) is shown in Fig. 3C. This trace is similar, but not identical, to the transmitted **signal** . Its power spectrum (Fig. 3D) shows that the fundamental **frequency** component of the square- **wave** modulation and its odd harmonics have been amplified considerably (>15 dB) by the nonlinear **response** of the receiver EDFA; we comment below on this interesting effect...

...The **signals** at the input and output of the receiver (recorded as time traces from photodiodes A and B) are subtracted after **signal** B is shifted (delayed) by (tau) = 51 ns, and the difference is shown in Fig...

...If the shift used before subtraction is incorrect, the recovered message is degraded. This difference **signal** is then low-pass filtered with a Butterworth filter (1/Radical{(2)} roll-off at...

...is recovered from the chaotic carrier fluctuations. It is easily recognized to be the square- **wave** modulation imposed on the injection laser. The dashed line is the message as measured directly...

...amplitude of the recovered message can be explained by the enhancement due to the nonlinear **response** of the receiver EDFA discussed below. For comparison, the same low-pass filter as above has been applied to the transmitted **signal** in Fig. 3A, and the result is shown in Fig. 4C. The 200-ns periodicity corresponds to the round-trip time of the laser; the square- **wave** message is not visible in this trace...

...3D shows that these inherent nonlinearities also allow the receiver EDFA to amplify preferentially the **frequency** components of the message **signal** . This preferential amplification permits the recovery of messages with smaller amplitudes than would be possible decade in nonlinear systems driven simultaneously by periodic **signals** and noise. There are no intrinsic restrictions on optical **communication** at much higher rates than demonstrated here, particularly if a direct subtraction of the electric...

...Figure F1
Caption: Experimental system for optical **communication** with chaotic

lasers. A coupler injects the modulated semiconductor laser **signal** with the message into the fiber ring laser. The output of the transmitter is extracted...

...The receiver input and output are detected by the photodiodes A and B. The photodiode **signals** are recorded on the **digital** oscilloscope and processed to recover the message...

...low-dimensional structure. (C) Receiver output (delayed by (tau) = 51 ns) corresponding to the transmitter **signal** in (A). (D) Synchronization plot of the **signals** in (A) and (C). The input and output of the receiver are well synchronized, demonstrating...
...Figure F3
Caption: (A) The transmitter output intensity time trace shows chaotic fluctuations. The message **signal** is injected into the ring laser for this recording. The message intensity is about 0...

...power spectrum of the time trace in (A) shows a small component at the square- **wave** message **frequency** of 10 MHz indicated by the arrow. (C) The time trace of the receiver output corresponding to the transmitter trace in (A). (D) The power spectrum of the receiver output **signal** . An arrow indicates the 10-MHz **frequency** .
...

...input recorded from photodetector A and receiver output recorded from photodetector B, after the transmitter **signal** has been shifted by the appropriate time delay (tau) = 51 ns. (B) The solid line is the recovered square- **wave** message after low-pass filtering of the difference **signal** in (A). The dashed line shows the message as detected by photodiode A if the...

...is turned off. The fluctuations are mainly due to noise from the photodiode amplifier and **analog** -to- **digital** converter in the oscilloscope. (C) Low-pass filtered version of the transmitted **signal** showing no trace of the square- **wave** message

22/3,K/27 (Item 2 from file: 370)
DIALOG(R)File 370:Science

00504746 (USE 9 FOR FULLTEXT)
Dimerization-Induced Inhibition of Receptor Protein Tyrosine Phosphatase Function Through an Inhibitory Wedge
Majeti, Ravindra; Bilwes, Alexandrine M.; Noel, Joseph P.; Hunter, Tony; Weiss, Arthur
R. Majeti and A. Weiss, Biomedical Sciences Graduate Program, Departments of Microbiology and Immunology and of Medicine and the Howard Hughes Medical Institute, University of California, San Francisco, CA 94143, USA. ; A. M. Bilwes and J. P. Noel, Structural Biology Laboratory, The Salk Institute for Biological Studies, 10010 North Torrey Pines Road, La Jolla, CA 92037, USA. ; T. Hunter, Molecular Biology and Virology Laboratory, The Salk Institute for Biological Studies, 10010 North Torrey Pines Road, La Jolla, CA 92037, USA.
Science Vol. 279 5347 pp. 88
Publication Date: 1-02-1998 (980102) Publication Year: 1998
Document Type: Journal ISSN: 0036-8075
Language: English
Section Heading: Reports
Word Count: 1857

(THIS IS THE FULLTEXT)
Text: The RPTPs are a family of **signaling** molecules whose function and regulation are not well understood (B1) . In T cells, the RPTP CD45 is required for T cell development (B2) and T cell receptor (TCR) **signal**

transduction (B3) (B4) (B5) , presumably by dephosphorylating the negative regulatory COOH-terminal tyrosine in the Src-family kinase Lck (B6) . A chimeric EGFR-CD45 molecule restores TCR-mediated **signal** transduction in a CD45-deficient T cell line; furthermore, treatment of these cells with EGF blocks TCR-mediated **signaling** , which suggests that CD45 is negatively regulated by ligand-induced dimerization (B7) . A possible explanation...

...B8) . Thus, ligand induced-dimerization may result in inhibition of phosphatase activity, and consequently of **signaling** function, through specific interactions between the catalytic site and the wedge containing the acidic residues...

...T cell line, H45.01 (B4) , with EGFR-CD45 chimeric molecules in which glutamate 624, **analogous** to aspartate 228 in the RPTPa wedge (B8) , was mutated to alanine (E624A) or arginine (E624R) (B9) . Subsequently, we assessed the ability of EGF to negatively regulate TCR **signal** transduction in these cells. Stable reconstitution of this CD45-deficient cell line with the wild-type EGFR-CD45 chimera restored normal TCR-mediated **signal** transduction (Fig. 1) (B7) . Wild-type and mutant reconstituted cell lines expressed comparable amounts of...

...kinase ZAP-70 and mitogen-activated protein kinase (MAPK) (Fig. 1, C and D) in **response** to TCR stimulation were similar to those **responses** in cells reconstituted with the wild-type chimera. Tyrosine phosphatase activity of the mutant CD45...

...01 cells restored the normal amplitude and time course of Ca.sup(2+) mobilization in **response** to TCR stimulation (Fig. 2 A) (B7) . This Ca.sup(2+) flux was inhibited upon...

...cells stably expressing the EGFR-CD45/E624A mutant chimera also mobilized Ca.sup(2+) in **response** to TCR stimulation with a similar amplitude and time course (Fig. 2D); however, this Ca.sup(2+) flux was less effectively inhibited by EGF (Fig. 2E). A similar lack of **responsiveness** to EGF was observed with H45.01 cells stably expressing the EGFR-CD45/E624R mutant chimera (Fig. 2, G and H). Treating cells expressing the wild-type **chimera** with EGF **before** TCR stimulation inhibited Ca.sup(2+) mobilization (Fig. 2C) (B7) . No such inhibition was evident...

...of the mutant chimeras has a reduced inhibitory effect on Ca.sup(2+) mobilization in **response** to TCR stimulation...
...of ZAP-70 was reduced in these cells (Fig. 3A). MAPK was also phosphorylated in **response** to TCR stimulation in H45.01 cells expressing the wild-type chimera (Fig. 3B). MAPK...to MAPK phosphorylation) and Ca.sup(2+) mobilization (B12) . Here we have shown that both **signaling** pathways are less effectively inhibited by ligand induced dimerization of E624-mutant EGFR-CD45 chimeric...

...inhibiting CD45 phosphatase activity. Consequently, Lck would remain in the phosphorylated, inactive conformation, and TCR **signals** would be inhibited. In E624R-mutant CD45 molecules, the wedge is altered so that the ...

...We chose to mutate glutamate 624 of CD45 because it is **analogous** to aspartate 228 within the putative inhibitory wedge of RPTPa (B8) . Aspartate 228 of one...

...substrate binding, rendering the phosphatase inactive. Mutation of glutamate 624 of CD45 presumably disrupts the **analogous** interaction in CD45 dimers, thereby allowing the mobile loop to change conformation upon substrate binding...

...independently isolated stable clones expressing the E624A or E624R mutant chimeras (B10) . CD45-deficient cells **responded** to ionomycin with detectable calcium mobilization (B10) . (C and D) Restora-tion of

TCR-mediated...

22/3,K/28 **(Item 3 from file: 370)**
DIALOG(R)File 370:Science

00500640 (USE 9 FOR FULLTEXT)
RNA Editing: A Mechanism for gRNA-Specified Uridylate Insertion into Precursor mRNA
Kable, Moffett L.; Seiwert, Scott D.; Heidmann, Stefan; Stuart, Kenneth
M. L. Kable and K. Stuart, Seattle Biomedical Research Institute, Seattle, WA 98109, and Department of Pathobiology, University of Washington, Seattle, WA 98195, USA. ; S. D. Seiwert and S. Heidmann, Seattle Biomedical Research Institute, Seattle, WA 98109, USA.
Science Vol. 273 5279 pp. 1189
Publication Date: 8-30-1996 (960830) Publication Year: 1996
Document Type: Journal ISSN: 0036-8075
Language: English
Section Heading: Research Articles
Word Count: 6063

(THIS IS THE FULLTEXT)

...Text: RNA editing also removes U's from specific positions, but at a 10-fold lower **frequency** . Both types of changes in informational content are specified by small [~ 60 nucleotides (nt)], trans...
...insertion editing in vitro and which therefore allows direct analysis of the mechanism of this **reaction** . (The insertion or deletion of U's at one editing site is referred to as the editing " **reaction** ," although it occurs by a series of catalytic steps.) We compare this mechanism to that...

...directed correct editing at ES2 (Fig. 1). RNA sequencing of species C purified from preparative **reactions** with ribonuclease (RNase) T1, RNase U2, and RNase Phy M (Fig. 3 , A and B...

...B3) (B8) , production of edited RNA also required inclusion of UTP in the in vitro **reaction** (Fig. 2B, lane 4). Neither 5 (prime) or 3 (prime) uridine monophosphate (UMP), cyclic UMP...with oligonucleotide A6-RT (B10) as a primer on species A purified from a preparative **reaction** (Fig. 3C). Comparison of the size of this run-off primer extension product to primer ...

...Thus, unlike the marker ladders, the 3 (prime) cleavage product generated during the U-insertion **reaction** probably carries a 5 (prime) monophosphate, as is the case during in vitro U-deletion...

...Inclusion of UTP in a **reaction** that also contained gRNA resulted in production of RNAs that were 1, 2, and 3 nt larger than the 5 (prime) cleavage product that is observed in **reactions** without UTP (compare lanes 3 and 4, Fig. 4A). Although molecules of the same size are apparent in **reactions** lacking gRNA, the larger products seen in lane 4 probably do not result from endonucleolytic...should become radiolabeled at ES2 if [a-.sup(32)P]UTP is included in the **reaction** . To test this hypothesis, we added [a-.sup(32)P]UTP to a **reaction** containing unlabeled RNA (Fig. 4B) (B7) . Gel electrophoresis of RNA collected from this **reaction** showed that molecules of many sizes were radiolabeled (B9) , probably by terminal uridylyl transferase (TUTase...

...product) should be produced (Fig. 4B). The size-selected products resulting from in vitro editing **reactions** that included gRNA and that were not subjected to the subsequent RNase H treatment yielded...

...at ES2. These two fragments were produced only when substrate RNA was included in the **reaction** (lane 5) and persisted after RNase H-mediated

destruction of gRNA (lane 6). Thus, radioactive...

...gRNA (lane 6) and was absent if gRNA was omitted from the in vitro editing **reaction** (lane 3), indicating that it indeed represents a fragment derived from gRNA. The absence of other major labeled products in **reactions** that included gRNA and substrate RNA (lanes 6 and 7) indicates that ES2 is specifically...

...investigate whether U insertion was determined by the sequence of the gRNA included in the **reaction** . This mutant gRNA should direct the insertion of three (rather than two) U's at...

...interactions between the gRNA and the substrate RNA at the processing site control U insertion. **Reactions** that included this gRNA resulted in an RNA product that was 1 nt larger than that produced in **reactions** containing the wild-type gRNA (Fig. 5 , A and B). RNase sequencing of this larger species after purification from a preparative **reaction** showed that it represents edited product with three U's at ES2 (B9) . Thus, genetic...

...A21 on U addition to the 5 (prime) cleavage product was examined in in vitro **reactions** performed with 5 (prime) end-labeled substrate RNA. In the presence of adenosine triphosphate (ATP...

...size distribution of these products appears to be the same as those produced in a **reaction** containing the wild-type gRNA (Figs. 4A and 5C). Thus, different gRNAs do not seem...6, B and C). RNA sequence analysis of edited product-sized molecules isolated from preparative **reactions** confirmed that the predicted number of U's were inserted into ES1-Cf in both...

...U's were inserted into ES1-Cf (B9) . These molecules may represent the in vitro **analogs** of partially edited mitochondrial RNAs that contain numbers of U's at editing sites that...

...editing that involve either transesterification (B3) or a modified version of the cleavage and ligation **reaction** pathway (B8) . In both models, the 3 (prime) oligo(U) "tail" of the gRNA is...If free UTP is required in a **reaction** pathway that utilizes chimeric intermediates, then **chimeras** should appear **before** edited RNA. However, in vitro time course experiments with 3 (prime) end-labeled A6-eES1...

...data, however, we think it more likely that, as previously suggested for the U-deletion **reaction** (B4) , chimeras result from an aberrant editing **reaction** that occurs at the expense of the formation of edited RNA (see below...

...8), both of which are close to the original proposal for RNA editing (B2) . Both **reactions** appear to require RNA endonuclease, an activity that either adds or removes U's from...
...the substrate RNA at the editing site is dependent on gRNA during the U-insertion **reaction** , but it is also cleaved at other sites in a gRNA-independent manner (Figs. 2A...

...determine its precise substrate recognition characteristics, substrate RNA cleavage during both the insertion and deletion **reaction** is directed by gRNA and produces a 3 (prime) -half RNA that terminates in a...to the 3 (prime) hydroxyl of the 5 (prime) cleavage product during the U-insertion **reaction** (Fig. 8, left). TUTase may also catalyze the reverse **reaction** and remove 5 (prime) -UMP from the 3 (prime) end of the 5 (prime) cleavage product during the U-deletion **reaction** (Fig. 8, center) (B4) ; alternatively, this activity could be performed by a distinct 3 (prime...

...bond of ATP (B10) , as is mitochondrial RNA ligase function (B26) . (iv) RNA ligase is **responsible** for in vitro formation of gRNA/pre-mRNA chimeric molecules (B26) , which are probably formed...

....5 (prime) cleavage product {compare the number of U's added to this product in **reactions** with wild-type gRNA or gA6[14]+A21 (Fig. 4A, lane 4, and Fig. 5C...

...correctly processed 5 (prime) cleavage product (Fig. 8). Thus, gRNA may act as a "splint," **analogous** to a DNA oligonucleotide during RNA ligation **reactions** catalyzed by T4 DNA ligase (B27) . Specificity during the ligation step is obviously not absolute because edited RNAs that contain a number of U's are produced at a low **frequency** , both greater and less than that specified by the gRNA (Fig. 6...RNA cleavage products are editing intermediates during both the U-insertion and the U-deletion **reaction** , whereas chimeras are nonproductive end products, rather than intermediates, of RNA editing...

...B5) substrate RNA partially digested with RNase T1 (lane 1) or used in in vitro **reactions** that included UTP and gRNA (lane 2), lacked gRNA (lane 3), or lacked UTP (lane...

...2), and D.inf(n>2) (lanes 1 to 5, respectively) gel-purified from preparative **reactions** like that in Fig. 2A, lane 2, after partial digestion with RNase T1. (B) Complete RNase sequencing of edited A6-eES1. Presumptive edited RNA generated in a preparative **reaction** containing 3 (prime) end-labeled A6-eES1 and gA6[14] was excised after gel electrophoresis...

...cleavage of 3 (prime) end-labeled A6-eES1 (species A) was isolated from a preparative **reaction** and subjected to run-off reverse transcription (B7) after annealing 5 (prime) -radiolabeled oligonucleotide A6...

...was analyzed relative to reverse transcription sequencing of A6-eES1 with the same primer in **reactions** containing either dideoxyadenosine (lane 1), dideoxycytidine (lane 2), or dideoxythymidine (lane 3). ES2 is indicated...in vitro incubation (lanes 2 to 4) or partial digestion with RNase T1 (lane 1). **Reactions** were performed as described (B7) and included (lanes 3 and 4) or lacked (lane 2...

...of [a-.sup(32)P]UMP-labeled RNA produced as outlined in (B). In vitro **reactions** (lanes 3 to 7) contained 20S to 35S glycerol gradient fraction of mitochondrial lysate, [a...

...was either partially digested with RNase T1 (lane 1) or used in in vitro processing **reactions** (B7) that lacked gRNA (lane 2) or contained gA6[14] (lane 3) or gA6[14...

...Fig. 4A, after partial digestion with RNase T1 (lane 1) or used in in vitro **reactions** with gA6[14]+A21 (lanes 2 and 3) and either without (lane 2) or with...

...derived from the mammalian U1 small nuclear RNA. (B) Polyacrylamide gel electrophoresis of products from **reactions** with 3 (prime) end-labeled ND7FS/TAG (lanes 1 to 4) and A6-ND7FS/TAG (lanes 5 to 11). In vitro editing **reactions** contained gNDFS+2 (lanes 2, 6, and 9 to 11), gND7FS+4 (lanes 3 and...

...Removed
Removed
Removed

Figure F7
Caption: Time course of processing. Samples from a scaled-up **reaction** like that shown in Fig. 2A, lane 2, were collected at the indicated times and **reaction** products fractionated by polyacrylamide gel electrophoresis (inset). Products labeled cleavage, substrate, edited RNA, ...Schematic showing models for U insertion (left), U deletion (center), and chimera

formation (right). All **reaction** pathways begin with gRNA-directed endonucleolytic cleavage next to the anchor duplex (dashed arrows). U...

22/3,K/29 (Item 1 from file: 635)
DIALOG(R)File 635:Business Dateline(R)

0324673 92-73757
For Somerville Restaurateur, Booming Business Is a Pleasure
Lovell, Sandy
Courier-News (Bridgewater, NJ, US) s1 p1
PUBL DATE: 920824
WORD COUNT: 595
DATELINE: Somerville, NJ, US

TEXT:

...Iannello extends a hand to a regular customer and pats another on the back. The **phone** rings--he's got it **answered** **before** the first **ring** ends. "Ciao," he hisses as he **waves** to a departing couple.

Iannello leads a busy life--and it shows signs of growing...

25/3,K/1 **(Item 1 from file: 16)**
DIALOG(R)File 16:Gale Group PROMT(R)

09009523 Supplier Number: 78362883 (USE FORMAT 7 FOR FULLTEXT)
Direct-Access Arrangements Are Crucial To Successful Embedded-Modem Designs.
Sorensen, Jeff
Electronic Design, v49, n17, p66
August 20, 2001
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 3379

... the modem is still on hook, either after the first ring cycle or after a **line reversal** (the dc battery voltage is reversed). Caller ID is performed in several of the isolation...

...ring cycle, which is when Caller ID is sent. In countries where Caller ID comes **before** the first **ring** cycle, more current can be drawn from the line during the CID interval.
Using The...

25/3,K/2 **(Item 1 from file: 275)**
DIALOG(R)File 275:Gale Group Computer DB(TM)

02082154 SUPPLIER NUMBER: 19520466 (USE FORMAT 7 OR 9 FOR FULL TEXT)
TMC's SOHO phone system. (TMC's 4810 SOHO phone) (includes related article on company services) (Product Announcement)
Kahan, Russell
Teleconnect, v15, n6, p34(2)
June, 1997
DOCUMENT TYPE: Product Announcement ISSN: 0740-9354 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 1058 LINE COUNT: 00081

... required is cut in half, but callers won't have to listen to too many **rings** **before** the mailbox answers. About $10 to $15. per mailbox.
Caller ID (name and number) for...

25/3,K/3 **(Item 2 from file: 275)**
DIALOG(R)File 275:Gale Group Computer DB(TM)

01778899 SUPPLIER NUMBER: 16864180 (USE FORMAT 7 OR 9 FOR FULL TEXT)
HP TeleShare: integrating telephone capabilities on a computer workstation. (an option card for the HP 9000 Model 712 workstation is HP's first integrated telephony product) (includes a related article on call progress, DTMF tones, and tone detection in the TeleShare card) (Technical)
Tucker, S. Paul
Hewlett-Packard Journal, v46, n2, p69(6)
April, 1995
DOCUMENT TYPE: Technical ISSN: 0018-1153 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 4783 LINE COUNT: 00366

... a minimum of 500 milliseconds after the first ring and ends at least 200 milliseconds **before** the second **ring** begins. This leaves 2.9 to 3.7 seconds of time for data transmission. The data is sent at 1200 baud using **frequency** **shift** **keying** (**FSK**) modulation. All data is 8-bit

March 27, 2003

ASCII.

Two standard formats exist for Caller-ID information...

March 27, 2003

29/3,K/1 **(Item 1 from file: 148)**
DIALOG(R)File 148:Gale Group Trade & Industry DB

06168960 SUPPLIER NUMBER: 12823847 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Is 800 service number portability cheaper, faster, better - or none of the above? (Consultant's Corner)
Kuehn, Richard A.
Business Communications Review, v22, n10, p90(2)
Oct, 1992
ISSN: 0162-3885 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1379 LINE COUNT: 00105

... to the interexchange cartier. The call then has to be set up across the network **before ringing** can begin on the **called party** 's **phone** . The total amount of time to actually connect a call will range between 12 and...

29/3,K/2 **(Item 1 from file: 636)**
DIALOG(R)File 636:Gale Group Newsletter DB(TM)

01007008 Supplier Number: 40301537 (USE FORMAT 7 FOR FULLTEXT)
Bell Atlantic deploys Signaling System 7 in northern New Jersey
BOC Week, p5,6
Feb 22, 1988
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 620

... customers will be able to see the number of the person calling them, program their **phones** to ring in distinctive patterns if specific people are calling, automatically call back a party who has just called even if the **phone** stopped **ringing before** the **called party** could answer it, and a variety of other convenience features. (See related story on page...